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Additional -

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Microsoft.PowerShell.Archive

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<https://github.com/PowerShell/PSReadLine>

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# 1.4 afero 1.6.0

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# 1.5 alecthomas-template 0.0.0-20190718012654-fb15b899a751

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# 1.7 influxdb-influxdb 0.9.6-0.20151125225445-9eab56311373

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## 1.8 microsoft-visualstudio-threading 10.0.0.0

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# 1.9 gopkg.in-inf 0.9.1

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# 1.10 curl 7.83.1

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## 1.11 go-sysconf 0.3.11

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# 1.12 logr 1.2.3

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\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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Package: logr

Title: Creates Log Files

Version: 1.2.3

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log\_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 4.0.0)

Suggests: knitr,

  rmarkdown,

  testthat,

  tidylog,

  dplyr,

  utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

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Source: <https://github.com/algolia/docsearch/>

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## 1.13 golang 1.19.6

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## 1.17 kingpin 2.2.6

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The End

**1.19 ema-qdisc 0.0.0-20200603082823-62d0308e3e00**

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## 1.27 aws-sdk-go 1.35.24

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## 1.28 go.uber.org/atomic 1.10.0

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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# 1.37 system-componentmodel-composition

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Additional -

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<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json  
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<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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## 1.57 go-systemd 22.3.2



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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
```

```
    assertParsesJSON(t, licenseJSON, license)
```

```
}
```

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```

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```

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```

```
package spec
```

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    Name string `json:"name,omitempty"`
```

```
    URL string `json:"url,omitempty"`
```

```
}
```

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## 1.63 pierrec-iz4 2.0.5+incompatible

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## 1.64 prometheus-exporter-toolkit 0.7.1

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Mesa 3-D graphics library  
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## 1.73 zap 1.24.0



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## 1.75 kubernetes-client 0.25.0

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# 1.76 lumberjack 2.2.1

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## 1.77 syndtr-gocapability 0.0.0-20200815063812-42c35b437635

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## 1.78 protobuf 1.26.0-rc.1

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## 1.79 hodgesds-perf-utils 0.4.0

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## 1.80 go-uber-org-multierr 1.6.0

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## 1.81 x-sys 0.4.0

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## 1.82 core.system.serviceprocess 3.1.302

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## 1.83 gopkg.in-ini 1.67.0

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## 1.86 google-uuid 1.1.2

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Gocheck - A rich testing framework for Go

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Support for streaming Protocol Buffer messages for the Go language (golang).

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procfs provides functions to retrieve system, kernel and process

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
)
```

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<Project.Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside  
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file  
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

<!--

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

```
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

```
</Project>
```

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<https://github.com/madler/zlib>  
[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson  
seander@cs.stanford.edu

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xxHash - Extremely Fast Hash algorithm

Header File

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You can contact the author at:

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<https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/>

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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## 1.104 mousetrap 1.1.0

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Martin Richards  
23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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<Project Sdk="Microsoft.NET.Sdk">

<PropertyGroup>

<OutputType>Exe</OutputType>



```

<ApplicationManifest>App.manifest</ApplicationManifest>
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
<IlrtTestKind>BuildOnly</IlrtTestKind>
<!-- Test unsupported outside of windows -->
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
<DisableProjectBuild Condition="$(TargetsUnix) == 'true'">true</DisableProjectBuild>
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/Server.Guids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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# 1.107 protobuf 1.28.1

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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package cloud

import (

"bytes"

"io/ioutil"

"os"

"path/filepath"

"strings"

"testing"

)

var sentinels = []string{

"Copyright",

"Google",

`Licensed under the Apache License, Version 2.0 (the "License");`

}

func TestLicense(t \*testing.T) {

t.Parallel()

err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {

```

if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbt.doc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}

```

## 1.114 system-management-automation 1.0.0.0

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson  
seander@cs.stanford.edu

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<Project Sdk="Microsoft.NET.Sdk">
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    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
</Project>
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</ItemGroup>
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  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
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Use:

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File: PSReadLine  
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<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json  
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<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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## 1.119 google-api-go-client 0.34.0

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```
package api
```

```
import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "regexp"  
    "testing"  
)
```

```

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//\#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights
reserved\.)*
(//\#) Use of this source code is governed by a BSD-style
(//\#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }

        return nil
    })
}

```

```
})
if err != nil {
    t.Fatal(err)
}
}
```

# 1.120 wifi 0.0.0-20200527114002-84f0b9457fdd

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- ilasm round-trip testing blocked on ILAsm supporting embedding resources. See
https://github.com/dotnet/runtime/issues/11412 -->
    <IlasmRoundTripIncompatible>true</IlasmRoundTripIncompatible>
    <!-- Test unsupported outside of windows -->
    <CLRTestTargetUnsupported Condition="'$(TargetsWindows)' != 'true'">true</CLRTestTargetUnsupported>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
</ItemGroup>
  <Compile Include="Program.cs" />
```



```

<Compile Include="..\ServerContracts/Server.CoClasses.cs" />
<Compile Include="..\ServerContracts/Server.Contracts.cs" />
<Compile Include="..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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<https://github.com/mono/mono/blob/29ee4e15806848ff5131c4bdd23ded786f5bc186/mono/benchmark/zipmark.cs>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Content: <https://stackoverflow.com/a/769713>

Question author: Bob The Janitor -- <https://stackoverflow.com/users/55102/bob-the-janitor>

Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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File: PSReadLine

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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```
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535138d7bcd7/internal/commandinfo.go  
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535138d7bcd7/internal/redistest/testdb.go  
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535138d7bcd7-go-zip/github.com/garyburd/redigo@v0.0.0-20150301180006-  
535138d7bcd7/redisx/connmux\_test.go  
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## Redigo

=====

Redigo is a [Go](<http://golang.org/>) client for the [Redis](<http://redis.io/>) database.

## Features

-----

- \* A [Print-like]([http://godoc.org/github.com/garyburd/redigo/redis#hdr-Executing\\_Commands](http://godoc.org/github.com/garyburd/redigo/redis#hdr-Executing_Commands)) API with support for all Redis commands.
- \* [Pipelining](<http://godoc.org/github.com/garyburd/redigo/redis#hdr-Pipelining>), including pipelined transactions.
- \* [Publish/Subscribe]([http://godoc.org/github.com/garyburd/redigo/redis#hdr-Publish\\_and\\_Subscribe](http://godoc.org/github.com/garyburd/redigo/redis#hdr-Publish_and_Subscribe)).
- \* [Connection pooling](<http://godoc.org/github.com/garyburd/redigo/redis#Pool>).
- \* [Script helper type](<http://godoc.org/github.com/garyburd/redigo/redis#Script>) with optimistic use of EVALSHA.
- \* [Helper functions]([http://godoc.org/github.com/garyburd/redigo/redis#hdr-Reply\\_Helpers](http://godoc.org/github.com/garyburd/redigo/redis#hdr-Reply_Helpers)) for working with

command replies.

## Documentation

-----

- [API Reference](<http://godoc.org/github.com/garyburd/redigo/redis>)
- [FAQ](<https://github.com/garyburd/redigo/wiki/FAQ>)

## Installation

-----

Install Redigo using the "go get" command:

```
go get github.com/garyburd/redigo/redis
```

The Go distribution is Redigo's only dependency.

## Contributing

-----

Contributions are welcome.

Before writing code, send mail to [gary@beagledreams.com](mailto:gary@beagledreams.com) to discuss what you plan to do. This gives me a chance to validate the design, avoid duplication of effort and ensure that the changes fit the goals of the project. Do not start the discussion with a pull request.

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-----

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```
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```

# 1.129 karrick-godirwalk 1.17.0

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io.helidon.config.yaml.internal.YamlFileTypeDetector

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io.helidon.config.yaml.internal.YamlConfigParser

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```
* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/services/io.helidon.config.spi.ConfigParser
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- \* /opt/cola/permits/1239779989\_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
- \* /opt/cola/permits/1239779989\_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/package-info.java
- \* /opt/cola/permits/1239779989\_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/package-info.java

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## 1.133 opencontainers-image-spec 1.0.2

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/opt/cola/permits/1355473443\_1658345712.6810725/0/powershell-package-tgz/powershell-preview-7.1.0\_rc.2-1.centos.8.x86\_64.rpm: binary file matches

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\* /bin/grep

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

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Martin Richards

23 February 2007

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<Project Sdk="Microsoft.NET.Sdk">

<PropertyGroup>

<OutputType>Exe</OutputType>

```

    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>

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[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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<https://github.com/Microsoft/RoslynClrHeapAllocationAnalyzer>

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside  
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file  
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

```

<TpnRepo Include="dotnet/wpf" />

<!--
Additional repos that should be included but don't have any third-party-notices files:
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

```

</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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#### Bit Twiddling Hacks

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# 1.139 prometheus-client 1.13.0

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# 1.140 go-openapi-jsonpointer 0.19.6

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# 1.142 zlib 1.3.101.76

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jloup@gzip.org      madler@alumni.caltech.edu

# 1.143 golang-genproto 0.0.0-20230117162540-28d6b9783ac4

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## 1.144 go-ole-go-ole 1.2.1

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## 1.145 golang-protobuf-extensions 1.0.1

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Martin Richards  
23 February 2007

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<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- ilasm round-trip testing blocked on ILAsm supporting embedding resources. See
https://github.com/dotnet/runtime/issues/11412 -->
    <IlasmRoundTripIncompatible>true</IlasmRoundTripIncompatible>
    <!-- Test unsupported outside of windows -->
    <CLRTestTargetUnsupported Condition="'$(TargetsWindows)' != 'true'">true</CLRTestTargetUnsupported>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
```



```

<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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# 1.148 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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## 1.155 olivere-elastic 2.0.12

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# 1.157 structured-merge-diff 4.2.3

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## 1.159 system-diagnostics-stacktrace 4.3.0

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# 1.162 go-zfs 2.1.2-0.20190413222219-f784269be439+incompatible

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### 1.0.0.0

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Martin Richards  
23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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<https://github.com/madler/zlib>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.12, March 27th, 2022

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile=\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside  
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file

in the dotnet home directory.

-->

<ItemGroup>

```
<TpnRepo Include="dotnet/runtime" />
<TpnRepo Include="dotnet/aspnetcore" />
<TpnRepo Include="dotnet/installer" />
<TpnRepo Include="dotnet/roslyn-analyzers" />
<TpnRepo Include="dotnet/templating" />
<TpnRepo Include="dotnet/winforms" />
<TpnRepo Include="dotnet/wpf" />
```

<!--

Additional repos that should be included but don't have any third-party-notices files:

```
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
dotnet/linker
```

-->

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
```

</ItemGroup>

<RegenerateThirdPartyNotices

```
TpnFile="$(TpnFile)"
PotentialTpnPaths="@ (PotentialTpnPath)"
TpnRepos="@ (TpnRepo)" />
```

<Message Text="\$(MSBuildProjectName) -> \$(TpnFile)" Importance="High" />

</Target>

</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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```
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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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<https://github.com/mono/mono/blob/29ee4e15806848ff5131c4bdd23ded786f5bc186/mono/benchmark/zipmark.cs>

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Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbenc>



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Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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<https://github.com/Microsoft/RoslynClrHeapAllocationAnalyzer>

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--  
Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->  
<ItemGroup>  
 <TpnRepo Include="dotnet/runtime" />  
 <TpnRepo Include="dotnet/aspnetcore" />  
 <TpnRepo Include="dotnet/installer" />  
 <TpnRepo Include="dotnet/roslyn-analyzers" />  
 <TpnRepo Include="dotnet/templating" />  
 <TpnRepo Include="dotnet/winforms" />  
 <TpnRepo Include="dotnet/wpf" />

<!--  
Additional repos that should be included but don't have any third-party-notices files:  
dotnet/efcore  
dotnet/emsdk  
dotnet/extensions  
dotnet/icu  
dotnet/sdk  
dotnet/windowsdesktop  
dotnet/linker

-->  
  
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />  
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />  
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />  
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />  
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />  
</ItemGroup>

<RegenerateThirdPartyNotices  
 TpnFile="\$(TpnFile)"  
 PotentialTpnPaths="@ (PotentialTpnPath)"  
 TpnRepos="@ (TpnRepo)" />

<Message Text="\$(MSBuildProjectName) -> \$(TpnFile)" Importance="High" />  
</Target>

</Project>  
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<https://github.com/madler/zlib>  
[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson  
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<https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/>

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

/\*

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```

```
package compute
```

```
import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)
```

```

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,

```

```

}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gpic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

```

```

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

```

```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

```

```

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, _ := url.Parse(c.endpoint)

```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
```

```
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}
```

```
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()
```

```
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}
```

```
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}
```

```
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
```

```
return rsp, nil
}
```

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```

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//
```

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```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {

```

```

ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{

```



```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
}

```

```

}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (

```

```

"context"

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.

```

```
// See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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```

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```

```
package compute
```

```
import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"
```

```
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}
```

```
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
```

```
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
```

```

Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```
type LicensesClient struct {
```

```
// The internal transport-dependent client.
```

```
internalClient internalLicensesClient
```

```
// The call options for this service.
```

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
c.internalClient.setGoogleClientInfo(keyval...)
```

```
}
```

// Connection returns a connection to the API service.

//

// Deprecated.

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
```

```
return c.internalClient.Connection()
```

```
}
```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are

```

creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,

```

```

error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.

```



```

func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {

```

```

    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return nil, err
}
defer httpRsp.Body.Close()

```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
}

```

```

}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &compute.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *compute.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
    }
}

```

```

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

```

```

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)

```

```

if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &computepb.Policy{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
}

```



```

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{ }

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {

```

```

return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

```

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# 1.181 [github.com/pelletier/go-toml/v2](https://github.com/pelletier/go-toml/v2) 2.0.6

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## 1.182 backoff 1.0.0

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## 1.183 lua 5.4.4.1

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No license file was found, but licenses were detected in source scan.

```
@Ci{$Id: manual.of $}
```

```
@C{[(------)]}
```

```
@manual{
```

```
@sect1{ @title{ Introduction }
```

Lua is a powerful, efficient, lightweight, embeddable scripting language. It supports procedural programming, object-oriented programming, functional programming, data-driven programming, and data description.

Lua combines simple procedural syntax with powerful data description constructs based on associative arrays and extensible semantics.

Lua is dynamically typed, runs by interpreting bytecode with a register-based virtual machine, and has automatic memory management with a generational garbage collection, making it ideal for configuration, scripting, and rapid prototyping.

Lua is implemented as a library, written in `clean C`, the common subset of `Standard C` and `C++`.

The Lua distribution includes a host program called `lua`, which uses the Lua library to offer a complete, standalone Lua interpreter, for interactive or batch use.

Lua is intended to be used both as a powerful, lightweight, embeddable scripting language for any program that needs one, and as a powerful but lightweight and efficient stand-alone language.

As an extension language, Lua has no notion of a `main` program: it works `embedded` in a host client, called the `embedding program` or simply the `host`. (Frequently, this host is the stand-alone `lua` program.)

The host program can invoke functions to execute a piece of Lua code, can write and read Lua variables, and can register `C` functions to be called by Lua code.

Through the use of `C` functions, Lua can be augmented to cope with a wide range of different domains, thus creating customized programming languages sharing a syntactical framework.

Lua is free software, and is provided as usual with no guarantees, as stated in its license.

The implementation described in this manual is available at Lua's official web site, `www.lua.org`.

Like any other reference manual, this document is dry in places.

For a discussion of the decisions behind the design of Lua, see the technical papers available at Lua's web site.

For a detailed introduction to programming in Lua,



see Roberto's book, `@emph{Programming in Lua}`.

}

`@C{-----}`

`@sect1{basic| @title{Basic Concepts}`

`@simplesect{`

This section describes the basic concepts of the language.

}

`@sect2{TypesSec| @title{Values and Types}`

Lua is a dynamically typed language.

This means that

variables do not have types; only values do.

There are no type definitions in the language.

All values carry their own type.

All values in Lua are first-class values.

This means that all values can be stored in variables,  
passed as arguments to other functions, and returned as results.

There are eight `@x{basic types}` in Lua:

`@def{nil}`, `@def{boolean}`, `@def{number}`,

`@def{string}`, `@def{function}`, `@def{userdata}`,

`@def{thread}`, and `@def{table}`.

The type `@emph{nil}` has one single value, `@nil`,  
whose main property is to be different from any other value;  
it often represents the absence of a useful value.

The type `@emph{boolean}` has two values, `@false` and `@true`.

Both `@nil` and `@false` make a condition false;

they are collectively called `@def{false values}`.

Any other value makes a condition true.

Despite its name,

`@false` is frequently used as an alternative to `@nil`,

with the key difference that `@false` behaves

like a regular value in a table,

while a `@nil` in a table represents an absent key.

The type `@emph{number}` represents both

integer numbers and real (floating-point) numbers,

using two `@x{subtypes}`: `@def{integer}` and `@def{float}`.

Standard Lua uses 64-bit integers and double-precision (64-bit) floats,

but you can also compile Lua so that it

uses 32-bit integers and/or single-precision (32-bit) floats.  
The option with 32 bits for both integers and floats  
is particularly attractive  
for small machines and embedded systems.  
(See macro `@id{LUA_32BITS}` in file `@id{luaconf.h}`.)

Unless stated otherwise,  
any overflow when manipulating integer values `@def{wrap around}`,  
according to the usual rules of two-complement arithmetic.  
(In other words,  
the actual result is the unique representable integer  
that is equal modulo `@M{2@sp{n}}` to the mathematical result,  
where `@M{n}` is the number of bits of the integer type.)

Lua has explicit rules about when each subtype is used,  
but it also converts between them automatically as needed `@see{coercion}`.  
Therefore,  
the programmer may choose to mostly ignore the difference  
between integers and floats  
or to assume complete control over the representation of each number.

The type `@emph{string}` represents immutable sequences of bytes.  
`@index{eight-bit clean}`  
Lua is 8-bit clean:  
strings can contain any 8-bit value,  
including `@x{embedded zeros}` (`@Char{\0}`).  
Lua is also encoding-agnostic;  
it makes no assumptions about the contents of a string.  
The length of any string in Lua must fit in a Lua integer.

Lua can call (and manipulate) functions written in Lua and  
functions written in C `@see{functioncall}`.  
Both are represented by the type `@emph{function}`.

The type `@emph{userdata}` is provided to allow arbitrary `@N{C data}` to  
be stored in Lua variables.

A userdata value represents a block of raw memory.  
There are two kinds of userdata:  
`@emphx{full userdata}`,  
which is an object with a block of memory managed by Lua,  
and `@emphx{light userdata}`,  
which is simply a `@N{C pointer}` value.  
Userdata has no predefined operations in Lua,  
except assignment and identity test.  
By using `@emph{metatables}`,  
the programmer can define operations for full userdata values  
`@see{metatable}`.  
Userdata values cannot be created or modified in Lua,

only through the @N{C API}.

This guarantees the integrity of data owned by the host program and @N{C libraries}.

The type @def{thread} represents independent threads of execution and it is used to implement coroutines @see{coroutine}.

Lua threads are not related to operating-system threads.

Lua supports coroutines on all systems, even those that do not support threads natively.

The type @emph{table} implements @x{associative arrays}, that is, @x{arrays} that can have as indices not only numbers, but any Lua value except @nil and @x{NaN}.

(@emphx{Not a Number} is a special floating-point value used by the @x{IEEE 754} standard to represent undefined numerical results, such as @T{0/0}.)

Tables can be @emph{heterogeneous};

that is, they can contain values of all types (except @nil).

Any key associated to the value @nil is not considered part of the table.

Conversely, any key that is not part of a table has an associated value @nil.

Tables are the sole data-structuring mechanism in Lua;

they can be used to represent ordinary arrays, lists,

symbol tables, sets, records, graphs, trees, etc.

To represent @x{records}, Lua uses the field name as an index.

The language supports this representation by

providing @id{a.name} as syntactic sugar for @T{a["name"]}.

There are several convenient ways to create tables in Lua

@see{tableconstructor}.

Like indices,

the values of table fields can be of any type.

In particular,

because functions are first-class values,

table fields can contain functions.

Thus tables can also carry @emph{methods} @see{func-def}.

The indexing of tables follows

the definition of raw equality in the language.

The expressions @T{a[i]} and @T{a[j]}

denote the same table element

if and only if @id{i} and @id{j} are raw equal

(that is, equal without metamethods).

In particular, floats with integral values

are equal to their respective integers

(e.g., @T{1.0 == 1}).

To avoid ambiguities,

any float used as a key that is equal to an integer is converted to that integer.  
For instance, if you write `@T{a[2.0] = true}`, the actual key inserted into the table will be the integer `@T{2}`.

Tables, functions, threads, and (full) userdata values are `@emph{objects}`: variables do not actually `@emph{contain}` these values, only `@emph{references}` to them.  
Assignment, parameter passing, and function returns always manipulate references to such values; these operations do not imply any kind of copy.

The library function `@Lid{type}` returns a string describing the type of a given value `@seeF{type}`.

}

`@sect2{globalenv| @title{Environments and the Global Environment}`

As we will discuss further in `@refsec{variables}` and `@refsec{assignment}`, any reference to a free name (that is, a name not bound to any declaration) `@id{var}` is syntactically translated to `@T{_ENV.var}`.  
Moreover, every chunk is compiled in the scope of an external local variable named `@id{_ENV}` `@see{chunks}`, so `@id{_ENV}` itself is never a free name in a chunk.

Despite the existence of this external `@id{_ENV}` variable and the translation of free names, `@id{_ENV}` is a completely regular name.  
In particular, you can define new variables and parameters with that name. Each reference to a free name uses the `@id{_ENV}` that is visible at that point in the program, following the usual visibility rules of Lua `@see{visibility}`.

Any table used as the value of `@id{_ENV}` is called an `@def{environment}`.

Lua keeps a distinguished environment called the `@def{global environment}`. This value is kept at a special index in the C registry `@see{registry}`.  
In Lua, the global variable `@Lid{_G}` is initialized with this same value. (`@Lid{_G}` is never used internally, so changing its value will affect only your own code.)

When Lua loads a chunk, the default value for its `@id{_ENV}` variable is the global environment `@seeF{load}`.

Therefore, by default,  
free names in Lua code refer to entries in the global environment  
and, therefore, they are also called @def{global variables}.

Moreover, all standard libraries are loaded in the global environment  
and some functions there operate on that environment.

You can use @Lid{load} (or @Lid{loadfile})  
to load a chunk with a different environment.

(In C, you have to load the chunk and then change the value  
of its first upvalue; see @See{lua\_setupvalue}.)

}

@sect2{error| @title{Error Handling}}

Several operations in Lua can @emph{raise} an error.  
An error interrupts the normal flow of the program,  
which can continue by @emph{catching} the error.

Lua code can explicitly raise an error by calling the  
@Lid{error} function.  
(This function never returns.)

To catch errors in Lua,  
you can do a @def{protected call},  
using @Lid{pcall} (or @Lid{xpcall}).  
The function @Lid{pcall} calls a given function in @def{protected mode}.

Any error while running the function stops its execution,  
and control returns immediately to @id{pcall},  
which returns a status code.

Because Lua is an embedded extension language,  
Lua code starts running by a call  
from @N{C code} in the host program.  
(When you use Lua standalone,  
the @id{lua} application is the host program.)  
Usually, this call is protected;  
so, when an otherwise unprotected error occurs during  
the compilation or execution of a Lua chunk,  
control returns to the host,  
which can take appropriate measures,  
such as printing an error message.

Whenever there is an error,  
an @def{error object}  
is propagated with information about the error.  
Lua itself only generates errors whose error object is a string,  
but programs may generate errors with  
any value as the error object.

It is up to the Lua program or its host to handle such error objects.  
For historical reasons,  
an error object is often called an @def{error message},  
even though it does not have to be a string.

When you use @Lid{xpcall} (or @Lid{lua\_pcall}, in C)  
you may give a @def{message handler}  
to be called in case of errors.

This function is called with the original error object  
and returns a new error object.

It is called before the error unwinds the stack,  
so that it can gather more information about the error,  
for instance by inspecting the stack and creating a stack traceback.

This message handler is still protected by the protected call;  
so, an error inside the message handler  
will call the message handler again.

If this loop goes on for too long,

Lua breaks it and returns an appropriate message.

The message handler is called only for regular runtime errors.

It is not called for memory-allocation errors  
nor for errors while running finalizers or other message handlers.

Lua also offers a system of @emph{warnings} @seeF{warn}.

Unlike errors, warnings do not interfere  
in any way with program execution.

They typically only generate a message to the user,  
although this behavior can be adapted from C @seeC{lua\_setwarnf}.

}

@sect2{metatable| @title{Metatables and Metamethods}}

Every value in Lua can have a @emph{metatable}.

This @def{metatable} is an ordinary Lua table  
that defines the behavior of the original value  
under certain events.

You can change several aspects of the behavior  
of a value by setting specific fields in its metatable.

For instance, when a non-numeric value is the operand of an addition,  
Lua checks for a function in the field @idx{\_\_add} of the value's metatable.

If it finds one,

Lua calls this function to perform the addition.

The key for each event in a metatable is a string  
with the event name prefixed by two underscores;  
the corresponding value is called a @def{metavalue}.

For most events, the metavalue must be a function,

which is then called a `@def{metamethod}`.

In the previous example, the key is the string `@St{__add}` and the metamethod is the function that performs the addition.

Unless stated otherwise,

a metamethod may in fact be any `@x{callable value}`, which is either a function or a value with a `@idx{__call}` metamethod.

You can query the metatable of any value using the `@Lid{getmetatable}` function.

Lua queries metamethods in metatables using a raw access `@seeF{rawget}`.

You can replace the metatable of tables using the `@Lid{setmetatable}` function.

You cannot change the metatable of other types from Lua code, except by using the `@link{debuglib|debug library}`.

Tables and full userdata have individual metatables, although multiple tables and userdata can share their metatables.

Values of all other types share one single metatable per type; that is, there is one single metatable for all numbers, one for all strings, etc.

By default, a value has no metatable,

but the string library sets a metatable for the string type `@see{strlib}`.

A detailed list of operations controlled by metatables is given next.

Each event is identified by its corresponding key.

By convention, all metatable keys used by Lua are composed by two underscores followed by lowercase Latin letters.

```
@description{
```

```
@item{ @idx{__add}|
```

the addition (`@T{+}`) operation.

If any operand for an addition is not a number,

Lua will try to call a metamethod.

It starts by checking the first operand (even if it is a number);

if that operand does not define a metamethod for `@idx{__add}`, then Lua will check the second operand.

If Lua can find a metamethod,

it calls the metamethod with the two operands as arguments,

and the result of the call

(adjusted to one value)

is the result of the operation.

Otherwise, if no metamethod is found,

Lua raises an error.

```
}
```

```
@item{ @idx{__sub}|
```

the subtraction ( $@T\{-}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_mul}|  
the multiplication ( $@T\{*\}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_div}|  
the division ( $@T\{/}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_mod}|  
the modulo ( $@T\{\%\}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_pow}|  
the exponentiation ( $@T\{\wedge\}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_unm}|  
the negation (unary  $@T\{-}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_idiv}|  
the floor division ( $@T\{//}$ ) operation.  
Behavior similar to the addition operation.  
}

@item{ @idx{\_\_band}|  
the bitwise AND ( $@T\{\&\}$ ) operation.  
Behavior similar to the addition operation,  
except that Lua will try a metamethod  
if any operand is neither an integer  
nor a float coercible to an integer @see{coercion}.  
}

@item{ @idx{\_\_bor}|  
the bitwise OR ( $@T\{\|\}$ ) operation.  
Behavior similar to the bitwise AND operation.  
}

@item{ @idx{\_\_bxor}|



the bitwise exclusive OR (binary `@T{~}`) operation.

Behavior similar to the bitwise AND operation.

}

@item{ @idx{\_\_bnot}|

the bitwise NOT (unary `@T{~}`) operation.

Behavior similar to the bitwise AND operation.

}

@item{ @idx{\_\_shl}|

the bitwise left shift (`@T{<<}`) operation.

Behavior similar to the bitwise AND operation.

}

@item{ @idx{\_\_shr}|

the bitwise right shift (`@T{>>}`) operation.

Behavior similar to the bitwise AND operation.

}

@item{ @idx{\_\_concat}|

the concatenation (`@T{..}`) operation.

Behavior similar to the addition operation,

except that Lua will try a metamethod

if any operand is neither a string nor a number

(which is always coercible to a string).

}

@item{ @idx{\_\_len}|

the length (`@T{#}`) operation.

If the object is not a string,

Lua will try its metamethod.

If there is a metamethod,

Lua calls it with the object as argument,

and the result of the call

(always adjusted to one value)

is the result of the operation.

If there is no metamethod but the object is a table,

then Lua uses the table length operation @see{len-op}.

Otherwise, Lua raises an error.

}

@item{ @idx{\_\_eq}|

the equal (`@T{==}`) operation.

Behavior similar to the addition operation,

except that Lua will try a metamethod only when the values

being compared are either both tables or both full userdata

and they are not primitively equal.

The result of the call is always converted to a boolean.

}

@item{ @idx{\_\_lt}|

the less than (@T{<}) operation.

Behavior similar to the addition operation,

except that Lua will try a metamethod only when the values

being compared are neither both numbers nor both strings.

Moreover, the result of the call is always converted to a boolean.

}

@item{ @idx{\_\_le}|

the less equal (@T{<=}) operation.

Behavior similar to the less than operation.

}

@item{ @idx{\_\_index}|

The indexing access operation @T{table[key]}.

This event happens when @id{table} is not a table or

when @id{key} is not present in @id{table}.

The metavalue is looked up in the metatable of @id{table}.

The metavalue for this event can be either a function, a table,  
or any value with an @idx{\_\_index} metavalue.

If it is a function,

it is called with @id{table} and @id{key} as arguments,

and the result of the call

(adjusted to one value)

is the result of the operation.

Otherwise,

the final result is the result of indexing this metavalue with @id{key}.

This indexing is regular, not raw,

and therefore can trigger another @idx{\_\_index} metavalue.

}

@item{ @idx{\_\_newindex}|

The indexing assignment @T{table[key] = value}.

Like the index event,

this event happens when @id{table} is not a table or

when @id{key} is not present in @id{table}.

The metavalue is looked up in the metatable of @id{table}.

Like with indexing,

the metavalue for this event can be either a function, a table,

or any value with an @idx{\_\_newindex} metavalue.

If it is a function,

it is called with @id{table}, @id{key}, and @id{value} as arguments.

Otherwise,

Lua repeats the indexing assignment over this metavalue

with the same key and value.

This assignment is regular, not raw,  
and therefore can trigger another `@idx{__newindex}` metavalue.

Whenever a `@idx{__newindex}` metavalue is invoked,  
Lua does not perform the primitive assignment.

If needed,  
the metamethod itself can call `@Lid{rawset}`  
to do the assignment.  
}

`@item{ @idx{__call}|`

The call operation `@T{func(args)}`.  
This event happens when Lua tries to call a non-function value  
(that is, `@id{func}` is not a function).  
The metamethod is looked up in `@id{func}`.  
If present,  
the metamethod is called with `@id{func}` as its first argument,  
followed by the arguments of the original call (`@id{args}`).  
All results of the call  
are the results of the operation.  
This is the only metamethod that allows multiple results.  
}

}

In addition to the previous list,  
the interpreter also respects the following keys in metatables:

`@idx{__gc}` `@see{finalizers}`,  
`@idx{__close}` `@see{to-be-closed}`,  
`@idx{__mode}` `@see{weak-table}`,  
and `@idx{__name}`.

(The entry `@idx{__name}`,  
when it contains a string,  
may be used by `@Lid{tostring}` and in error messages.)

For the unary operators (negation, length, and bitwise NOT),  
the metamethod is computed and called with a dummy second operand,  
equal to the first one.

This extra operand is only to simplify Lua's internals  
(by making these operators behave like a binary operation)  
and may be removed in future versions.

For most uses this extra operand is irrelevant.

Because metatables are regular tables,  
they can contain arbitrary fields,  
not only the event names defined above.

Some functions in the standard library

(e.g., @Lid{tostring})

use other fields in metatables for their own purposes.

It is a good practice to add all needed metamethods to a table before setting it as a metatable of some object.

In particular, the @idx{\_\_gc} metamethod works only when this order is followed @see{finalizers}.

It is also a good practice to set the metatable of an object right after its creation.

```
}
```

```
@sect2{GC| @title{Garbage Collection}
```

```
@simplesect{
```

Lua performs automatic memory management.

This means that

you do not have to worry about allocating memory for new objects or freeing it when the objects are no longer needed.

Lua manages memory automatically by running a @def{garbage collector} to collect all @emph{dead} objects.

All memory used by Lua is subject to automatic management: strings, tables, userdata, functions, threads, internal structures, etc.

An object is considered @def{dead}

as soon as the collector can be sure the object will not be accessed again in the normal execution of the program.

(@Q{Normal execution} here excludes finalizers,

which can resurrect dead objects @see{finalizers},

and excludes also operations using the debug library.)

Note that the time when the collector can be sure that an object is dead may not coincide with the programmer's expectations.

The only guarantees are that Lua will not collect an object that may still be accessed in the normal execution of the program,

and it will eventually collect an object

that is inaccessible from Lua.

(Here,

@emph{inaccessible from Lua} means that neither a variable nor another live object refer to the object.)

Because Lua has no knowledge about @N{C code},

it never collects objects accessible through the registry @see{registry},

which includes the global environment @see{globalenv}.

The garbage collector (GC) in Lua can work in two modes: incremental and generational.

The default GC mode with the default parameters are adequate for most uses.

However, programs that waste a large proportion of their time allocating and freeing memory can benefit from other settings.

Keep in mind that the GC behavior is non-portable both across platforms and across different Lua releases; therefore, optimal settings are also non-portable.

You can change the GC mode and parameters by calling `@Lid{lua_gc}` `@N{in C}` or `@Lid{collectgarbage}` in Lua.

You can also use these functions to control the collector directly (e.g., to stop and restart it).

}

@sect3{incmode| @title{Incremental Garbage Collection}}

In incremental mode, each GC cycle performs a mark-and-sweep collection in small steps interleaved with the program's execution.

In this mode, the collector uses three numbers to control its garbage-collection cycles: the `@def{garbage-collector pause}`, the `@def{garbage-collector step multiplier}`, and the `@def{garbage-collector step size}`.

The garbage-collector pause controls how long the collector waits before starting a new cycle. The collector starts a new cycle when the use of memory hits `@M{n%}` of the use after the previous collection. Larger values make the collector less aggressive. Values equal to or less than 100 mean the collector will not wait to start a new cycle. A value of 200 means that the collector waits for the total memory in use to double before starting a new cycle. The default value is 200; the maximum value is 1000.

The garbage-collector step multiplier controls the speed of the collector relative to memory allocation, that is, how many elements it marks or sweeps for each kilobyte of memory allocated. Larger values make the collector more aggressive but also increase the size of each incremental step. You should not use values less than 100, because they make the collector too slow and

can result in the collector never finishing a cycle.  
The default value is 100; the maximum value is 1000.

The garbage-collector step size controls the size of each incremental step, specifically how many bytes the interpreter allocates before performing a step.

This parameter is logarithmic:

A value of  $2^n$  means the interpreter will allocate  $2^n$  bytes between steps and perform equivalent work during the step.

A large value (e.g., 60) makes the collector a stop-the-world (non-incremental) collector.

The default value is 13, which means steps of approximately 8 Kbytes.

}

@sect3{genmode| @title{Generational Garbage Collection}}

In generational mode, the collector does frequent *minor* collections, which traverses only objects recently created. If after a minor collection the use of memory is still above a limit, the collector does a stop-the-world *major* collection, which traverses all objects.

The generational mode uses two parameters: the *minor multiplier* and the *major multiplier*.

The minor multiplier controls the frequency of minor collections. For a minor multiplier  $x$ , a new minor collection will be done when memory grows  $x\%$  larger than the memory in use after the previous major collection.

For instance, for a multiplier of 20, the collector will do a minor collection when the use of memory gets 20% larger than the use after the previous major collection. The default value is 20; the maximum value is 200.

The major multiplier controls the frequency of major collections. For a major multiplier  $x$ , a new major collection will be done when memory grows  $x\%$  larger than the memory in use after the previous major collection.

For instance, for a multiplier of 100, the collector will do a major collection when the use of memory gets larger than twice the use after the previous collection. The default value is 100; the maximum value is 1000.

}

@sect3{finalizers| @title{Garbage-Collection Metamethods}

You can set garbage-collector metamethods for tables and, using the @N{C API}, for full userdata @see{metatable}.

These metamethods, called @def{finalizers}, are called when the garbage collector detects that the corresponding table or userdata is dead.

Finalizers allow you to coordinate Lua's garbage collection with external resource management such as closing files, network or database connections, or freeing your own memory.

For an object (table or userdata) to be finalized when collected, you must @emph{mark} it for finalization.

@index{mark (for finalization)}

You mark an object for finalization when you set its metatable and the metatable has a @idx{\_\_gc} metamethod.

Note that if you set a metatable without a @idx{\_\_gc} field and later create that field in the metatable, the object will not be marked for finalization.

When a marked object becomes dead, it is not collected immediately by the garbage collector.

Instead, Lua puts it in a list.

After the collection,

Lua goes through that list.

For each object in the list,

it checks the object's @idx{\_\_gc} metamethod:

If it is present,

Lua calls it with the object as its single argument.

At the end of each garbage-collection cycle, the finalizers are called in the reverse order that the objects were marked for finalization, among those collected in that cycle; that is, the first finalizer to be called is the one associated with the object marked last in the program.

The execution of each finalizer may occur at any point during the execution of the regular code.

Because the object being collected must still be used by the finalizer, that object (and other objects accessible only through it)

must be @emph{resurrected} by Lua.@index{resurrection}

Usually, this resurrection is transient,

and the object memory is freed in the next garbage-collection cycle.

However, if the finalizer stores the object in some global place (e.g., a global variable), then the resurrection is permanent. Moreover, if the finalizer marks a finalizing object for finalization again, its finalizer will be called again in the next cycle where the object is dead. In any case, the object memory is freed only in a GC cycle where the object is dead and not marked for finalization.

When you close a state `@seeF{lua_close}`, Lua calls the finalizers of all objects marked for finalization, following the reverse order that they were marked. If any finalizer marks objects for collection during that phase, these marks have no effect.

Finalizers cannot yield nor run the garbage collector. Because they can run in unpredictable times, it is good practice to restrict each finalizer to the minimum necessary to properly release its associated resource.

Any error while running a finalizer generates a warning; the error is not propagated.

}

`@sect3{weak-table| @title{Weak Tables}`

A `@def{weak table}` is a table whose elements are `@def{weak references}`. A weak reference is ignored by the garbage collector. In other words, if the only references to an object are weak references, then the garbage collector will collect that object.

A weak table can have weak keys, weak values, or both. A table with weak values allows the collection of its values, but prevents the collection of its keys. A table with both weak keys and weak values allows the collection of both keys and values. In any case, if either the key or the value is collected, the whole pair is removed from the table. The weakness of a table is controlled by the `@idx{__mode}` field of its metatable. This metavalue, if present, must be one of the following strings: `@St{k}`, for a table with weak keys; `@St{v}`, for a table with weak values;



or `@St{kv}`, for a table with both weak keys and values.

A table with weak keys and strong values is also called an `@def{ephemeron table}`.

In an ephemeron table, a value is considered reachable only if its key is reachable. In particular, if the only reference to a key comes through its value, the pair is removed.

Any change in the weakness of a table may take effect only at the next collect cycle. In particular, if you change the weakness to a stronger mode, Lua may still collect some items from that table before the change takes effect.

Only objects that have an explicit construction are removed from weak tables. Values, such as numbers and `@x{light @N{C functions}}`, are not subject to garbage collection, and therefore are not removed from weak tables (unless their associated values are collected). Although strings are subject to garbage collection, they do not have an explicit construction and their equality is by value; they behave more like values than like objects. Therefore, they are not removed from weak tables.

Resurrected objects (that is, objects being finalized and objects accessible only through objects being finalized) have a special behavior in weak tables. They are removed from weak values before running their finalizers, but are removed from weak keys only in the next collection after running their finalizers, when such objects are actually freed. This behavior allows the finalizer to access properties associated with the object through weak tables.

If a weak table is among the resurrected objects in a collection cycle, it may not be properly cleared until the next cycle.

}

}

`@sect2{coroutine| @title{Coroutines}`

Lua supports coroutines,

also called `@emph{collaborative multithreading}`.  
A coroutine in Lua represents an independent thread of execution.  
Unlike threads in multithread systems, however,  
a coroutine only suspends its execution by explicitly calling  
a yield function.

You create a coroutine by calling `@Lid{coroutine.create}`.  
Its sole argument is a function  
that is the main function of the coroutine.  
The `@id{create}` function only creates a new coroutine and  
returns a handle to it (an object of type `@emph{thread}`);  
it does not start the coroutine.

You execute a coroutine by calling `@Lid{coroutine.resume}`.  
When you first call `@Lid{coroutine.resume}`,  
passing as its first argument  
a thread returned by `@Lid{coroutine.create}`,  
the coroutine starts its execution by  
calling its main function.  
Extra arguments passed to `@Lid{coroutine.resume}` are passed  
as arguments to that function.  
After the coroutine starts running,  
it runs until it terminates or `@emph{yields}`.

A coroutine can terminate its execution in two ways:  
normally, when its main function returns  
(explicitly or implicitly, after the last instruction);  
and abnormally, if there is an unprotected error.  
In case of normal termination,  
`@Lid{coroutine.resume}` returns `@true`,  
plus any values returned by the coroutine main function.  
In case of errors, `@Lid{coroutine.resume}` returns `@false`  
plus the error object.  
In this case, the coroutine does not unwind its stack,  
so that it is possible to inspect it after the error  
with the debug API.

A coroutine yields by calling `@Lid{coroutine.yield}`.  
When a coroutine yields,  
the corresponding `@Lid{coroutine.resume}` returns immediately,  
even if the yield happens inside nested function calls  
(that is, not in the main function,  
but in a function directly or indirectly called by the main function).  
In the case of a yield, `@Lid{coroutine.resume}` also returns `@true`,  
plus any values passed to `@Lid{coroutine.yield}`.  
The next time you resume the same coroutine,  
it continues its execution from the point where it yielded,  
with the call to `@Lid{coroutine.yield}` returning any extra

arguments passed to `@Lid{coroutine.resume}`.

Like `@Lid{coroutine.create}`,  
the `@Lid{coroutine.wrap}` function also creates a coroutine,  
but instead of returning the coroutine itself,  
it returns a function that, when called, resumes the coroutine.  
Any arguments passed to this function  
go as extra arguments to `@Lid{coroutine.resume}`.  
`@Lid{coroutine.wrap}` returns all the values returned by `@Lid{coroutine.resume}`,  
except the first one (the boolean error code).  
Unlike `@Lid{coroutine.resume}`,  
the function created by `@Lid{coroutine.wrap}`  
propagates any error to the caller.  
In this case,  
the function also closes the coroutine `@seeF{coroutine.close}`.

As an example of how coroutines work,  
consider the following code:

```
@verbatim{
function foo (a)
  print("foo", a)
  return coroutine.yield(2*a)
end

co = coroutine.create(function (a,b)
  print("co-body", a, b)
  local r = foo(a+1)
  print("co-body", r)
  local r, s = coroutine.yield(a+b, a-b)
  print("co-body", r, s)
  return b, "end"
end)

print("main", coroutine.resume(co, 1, 10))
print("main", coroutine.resume(co, "r"))
print("main", coroutine.resume(co, "x", "y"))
print("main", coroutine.resume(co, "x", "y"))
}
```

When you run it, it produces the following output:

```
@verbatim{
co-body 1    10
foo  2
main  true  4
co-body r
main  true  11  -9
co-body x    y
main  true  10  end
main  false  cannot resume dead coroutine
}
```

}

You can also create and manipulate coroutines through the C API:  
see functions @Lid{lua\_newthread}, @Lid{lua\_resume},  
and @Lid{lua\_yield}.

}

}

@C{-----}  
@sect1{language| @title{The Language}}

@simplesect{

This section describes the lexis, the syntax, and the semantics of Lua.  
In other words,  
this section describes  
which tokens are valid,  
how they can be combined,  
and what their combinations mean.

Language constructs will be explained using the usual extended BNF notation,  
in which

@N{ @bnfrep{ @rep{a} } means 0} or more @rep{a}'s, and

@N{ @bnfopt{ @rep{a} } means } an optional @rep{a}.

Non-terminals are shown like @bnfNter{non-terminal},

keywords are shown like @rw{kword},

and other terminal symbols are shown like @bnfter{=}.

The complete syntax of Lua can be found in @refsec{BNF}  
at the end of this manual.

}

@sect2{lexical| @title{Lexical Conventions}}

Lua is a @x{free-form} language.

It ignores spaces and comments between lexical elements (@x{tokens}),  
except as delimiters between two tokens.

In source code,

Lua recognizes as spaces the standard ASCII whitespace  
characters space, form feed, newline,  
carriage return, horizontal tab, and vertical tab.

@def{Names}

(also called @def{identifiers})

in Lua can be any string of Latin letters,

Arabic-Indic digits, and underscores,  
not beginning with a digit and  
not being a reserved word.  
Identifiers are used to name variables, table fields, and labels.

The following @def{keywords} are reserved  
and cannot be used as names:

```
@index{reserved words}
@verbatim{
and   break  do    else  elseif end
false for   function goto  if    in
local nil   not   or    repeat return
then  true   until while
}
```

Lua is a case-sensitive language:

@id{and} is a reserved word, but @id{And} and @id{AND}  
are two different, valid names.

As a convention,  
programs should avoid creating  
names that start with an underscore followed by  
one or more uppercase letters (such as @Lid{\_VERSION}).

The following strings denote other @x{tokens}:

```
@verbatim{
+ - * / % ^ #
& ~ | << >> //
== ~= <= >= < > =
( ) { } [ ] ::
; : , . .. ...
}
```

A @def{short literal string}  
can be delimited by matching single or double quotes,  
and can contain the following C-like escape sequences:

@Char{a} (bell),  
@Char{b} (backspace),  
@Char{f} (form feed),  
@Char{n} (newline),  
@Char{r} (carriage return),  
@Char{t} (horizontal tab),  
@Char{v} (vertical tab),  
@Char{\\} (backslash),  
@Char{"} (quotation mark [double quote]),  
and @Char{' } (apostrophe [single quote]).

A backslash followed by a line break  
results in a newline in the string.

The escape sequence @Char{z} skips the following span

of whitespace characters,  
including line breaks;  
it is particularly useful to break and indent a long literal string  
into multiple lines without adding the newlines and spaces  
into the string contents.  
A short literal string cannot contain unescaped line breaks  
nor escapes not forming a valid escape sequence.

We can specify any byte in a short literal string,  
including `@x{embedded zeros}`,  
by its numeric value.  
This can be done  
with the escape sequence `@T{\x@rep{XX}}`,  
where `@rep{XX}` is a sequence of exactly two hexadecimal digits,  
or with the escape sequence `@T{\@rep{ddd}}`,  
where `@rep{ddd}` is a sequence of up to three decimal digits.  
(Note that if a decimal escape sequence is to be followed by a digit,  
it must be expressed using exactly three digits.)

The `@x{UTF-8}` encoding of a `@x{Unicode}` character  
can be inserted in a literal string with  
the escape sequence `@T{\u{@rep{XXX}}}`  
(with mandatory enclosing braces),  
where `@rep{XXX}` is a sequence of one or more hexadecimal digits  
representing the character code point.  
This code point can be any value less than `@M{2@sp{31}}`.  
(Lua uses the original UTF-8 specification here,  
which is not restricted to valid Unicode code points.)

Literal strings can also be defined using a long format  
enclosed by `@def{long brackets}`.  
We define an `@def{opening long bracket of level @rep{n}}` as an opening  
square bracket followed by `@rep{n}` equal signs followed by another  
opening square bracket.  
So, an opening long bracket of `@N{level 0}` is written as `@T{[[, @C{]]}`  
an opening long bracket of `@N{level 1}` is written as `@T{[=[, @C{]]}`  
and so on.  
A `@emph{closing long bracket}` is defined similarly;  
for instance,  
a closing long bracket of `@N{level 4}` is written as `@C{[[ @T{]====}]}`.  
A `@def{long literal}` starts with an opening long bracket of any level and  
ends at the first closing long bracket of the same level.  
It can contain any text except a closing bracket of the same level.  
Literals in this bracketed form can run for several lines,  
do not interpret any escape sequences,  
and ignore long brackets of any other level.  
Any kind of end-of-line sequence  
(carriage return, newline, carriage return followed by newline,

or newline followed by carriage return)  
is converted to a simple newline.  
When the opening long bracket is immediately followed by a newline,  
the newline is not included in the string.

As an example, in a system using ASCII  
(in which @Char{a} is coded @N{as 97},  
newline is coded @N{as 10}, and @Char{1} is coded @N{as 49}),  
the five literal strings below denote the same string:

```
@verbatim{
a = 'alo\n123"'
a = "alo\n123\''
a = "\97lo\10\04923"'
a = [[alo
123"]]
a = [=[
alo
123"]=]
}
```

Any byte in a literal string not  
explicitly affected by the previous rules represents itself.  
However, Lua opens files for parsing in text mode,  
and the system's file functions may have problems with  
some control characters.  
So, it is safer to represent  
binary data as a quoted literal with  
explicit escape sequences for the non-text characters.

A @def{numeric constant} (or @def{numeral})  
can be written with an optional fractional part  
and an optional decimal exponent,  
marked by a letter @Char{e} or @Char{E}.  
Lua also accepts @x{hexadecimal constants},  
which start with @T{0x} or @T{0X}.  
Hexadecimal constants also accept an optional fractional part  
plus an optional binary exponent,  
marked by a letter @Char{p} or @Char{P}.

A numeric constant with a radix point or an exponent  
denotes a float;  
otherwise,  
if its value fits in an integer or it is a hexadecimal constant,  
it denotes an integer;  
otherwise (that is, a decimal integer numeral that overflows),  
it denotes a float.  
Hexadecimal numerals with neither a radix point nor an exponent  
always denote an integer value;

if the value overflows, it `@emph{wraps around}`  
to fit into a valid integer.

Examples of valid integer constants are

```
@verbatim{
3 345 0xff 0xBEBADA
}
```

Examples of valid float constants are

```
@verbatim{
3.0 3.1416 314.16e-2 0.31416E1 34e1
0x0.1E 0xA23p-4 0X1.921FB54442D18P+1
}
```

A `@def{comment}` starts with a double hyphen (`@T{--}`)  
anywhere outside a string.

If the text immediately after `@T{--}` is not an opening long bracket,  
the comment is a `@def{short comment}`,  
which runs until the end of the line.

Otherwise, it is a `@def{long comment}`,  
which runs until the corresponding closing long bracket.

```
}
```

```
@sect2{variables| @title{Variables}}
```

Variables are places that store values.

There are three kinds of variables in Lua:

global variables, local variables, and table fields.

A single name can denote a global variable or a local variable  
(or a function's formal parameter,  
which is a particular kind of local variable):

```
@Produc{
@producname{var} @producbody{ @bnfNter{Name} }
}
```

`@bnfNter{Name}` denotes identifiers `@see{lexical}`.

Any variable name is assumed to be global unless explicitly declared  
as a local `@see{localvar}`.

`@x{Local variables}` are `@emph{lexically scoped}`:

local variables can be freely accessed by functions

defined inside their scope `@see{visibility}`.

Before the first assignment to a variable, its value is `@nil`.

Square brackets are used to index a table:

```
@Produc{
@producname{var} @producbody{prefixexp @bnfter{[] exp @bnfter{[]}}
```



}

The meaning of accesses to table fields can be changed via metatables

@see{metatable}.

The syntax @id{var.Name} is just syntactic sugar for

@T{var["Name"]}:  
@Produc{

@producname{var}@producbody{prefixexp @bnfter{.} @bnfNter{Name}}

@bnfter{.} @bnfNter{Name}}

}

An access to a global variable @id{x}

is equivalent to @id{\_ENV.x}.

Due to the way that chunks are compiled,

the variable @id{\_ENV} itself is never global @see{globalenv}.

}

@sect2{stats| @title{Statements}}

@simplesect{

Lua supports an almost conventional set of @x{statements},

similar to those in other conventional languages.

This set includes

blocks, assignments, control structures, function calls,

and variable declarations.

}

@sect3{ @title{Blocks}}

A @x{block} is a list of statements,

which are executed sequentially:

@Produc{

@producname{block}@producbody{ @bnfrep{stat}}

}

Lua has @def{empty statements}

that allow you to separate statements with semicolons,

start a block with a semicolon

or write two semicolons in sequence:

@Produc{

@producname{stat}@producbody{ @bnfter{;}}

}

Both function calls and assignments

can start with an open parenthesis.

This possibility leads to an ambiguity in Lua's grammar.

Consider the following fragment:

```
@verbatim{
a = b + c
(print or io.write)('done')
}
```

The grammar could see this fragment in two ways:

```
@verbatim{
a = b + c(print or io.write)('done')
```

```
a = b + c; (print or io.write)('done')
}
```

The current parser always sees such constructions

in the first way,

interpreting the open parenthesis

as the start of the arguments to a call.

To avoid this ambiguity,

it is a good practice to always precede with a semicolon

statements that start with a parenthesis:

```
@verbatim{
;(print or io.write)('done')
}
```

A block can be explicitly delimited to produce a single statement:

```
@Produc{
@producname{stat}@producbody{@Rw{do} block @Rw{end}}
}
```

Explicit blocks are useful

to control the scope of variable declarations.

Explicit blocks are also sometimes used to

add a @Rw{return} statement in the middle

of another block @see{control}.

```
}
```

```
@sect3{chunks| @title{Chunks}}
```

The unit of compilation of Lua is called a @def{chunk}.

Syntactically,

a chunk is simply a block:

```
@Produc{
@producname{chunk}@producbody{block}
}
```

Lua handles a chunk as the body of an anonymous function

with a variable number of arguments

@see{func-def}.

As such, chunks can define local variables,

receive arguments, and return values.

Moreover, such anonymous function is compiled as in the

scope of an external local variable called `@id{_ENV}` `@see{globalenv}`.  
The resulting function always has `@id{_ENV}` as its only external variable,  
even if it does not use that variable.

A chunk can be stored in a file or in a string inside the host program.

To execute a chunk,

Lua first `@emph{loads}` it,

precompiling the chunk's code into instructions for a virtual machine,

and then Lua executes the compiled code

with an interpreter for the virtual machine.

Chunks can also be precompiled into binary form;

see the program `@idx{luac}` and the function `@Lid{string.dump}` for details.

Programs in source and compiled forms are interchangeable;

Lua automatically detects the file type and acts accordingly `@seeF{load}`.

}

`@sect3{assignment| @title{Assignment}}`

Lua allows `@x{multiple assignments}`.

Therefore, the syntax for assignment

defines a list of variables on the left side

and a list of expressions on the right side.

The elements in both lists are separated by commas:

`@Produc{`

`@producname{stat} @producbody{varlist @bnfter{=} explist}`

`@producname{varlist} @producbody{var @bnfrep{ @bnfter{,} var} }`

`@producname{explist} @producbody{exp @bnfrep{ @bnfter{,} exp} }`

}

Expressions are discussed in `@See{expressions}`.

Before the assignment,

the list of values is `@emph{adjusted}` to the length of

the list of variables. `@index{adjustment}`

If there are more values than needed,

the excess values are thrown away.

If there are fewer values than needed,

the list is extended with `@nil`'s.

If the list of expressions ends with a function call,

then all values returned by that call enter the list of values,

before the adjustment

(except when the call is enclosed in parentheses; see `@See{expressions}`).

If a variable is both assigned and read

inside a multiple assignment,

Lua ensures all reads get the value of the variable

before the assignment.

Thus the code

```
@verbatim{
i = 3
i, a[i] = i+1, 20
}
```

sets `@T{a[3]}` to 20, without affecting `@T{a[4]}` because the `@id{i}` in `@T{a[i]}` is evaluated (to 3) before it is `@N{assigned 4}`.

Similarly, the line

```
@verbatim{
x, y = y, x
}
```

exchanges the values of `@id{x}` and `@id{y}`, and

```
@verbatim{
x, y, z = y, z, x
}
```

cyclically permutes the values of `@id{x}`, `@id{y}`, and `@id{z}`.

Note that this guarantee covers only accesses syntactically inside the assignment statement.

If a function or a metamethod called during the assignment changes the value of a variable,

Lua gives no guarantees about the order of that access.

An assignment to a global name `@T{x = val}` is equivalent to the assignment `@T{ _ENV.x = val } @see{globalenv}`.

The meaning of assignments to table fields and global variables (which are actually table fields, too) can be changed via metatables `@see{metatable}`.

}

`@sect3{control} @title{Control Structures}`

The control structures

`@Rw{if}`, `@Rw{while}`, and `@Rw{repeat}` have the usual meaning and familiar syntax:

```
@index{while-do statement}
```

```
@index{repeat-until statement}
```

```
@index{if-then-else statement}
```

```
@Produc{
```

```
@producname{stat}@produciblebody{@Rw{while} exp @Rw{do} block @Rw{end}}
```

```
@producname{stat}@produciblebody{@Rw{repeat} block @Rw{until} exp}
```

```
@producname{stat}@produciblebody{@Rw{if} exp @Rw{then} block
```

```
@bnfrep{@Rw{elseif} exp @Rw{then} block}
```

```
@bnfoft{@Rw{else} block} @Rw{end}}
```

```
}
```

Lua also has a `@Rw{for}` statement, in two flavors `@see{for}`.

The `@x{condition expression}` of a control structure can return any value.

Both `@false` and `@nil` test false.

All values different from `@nil` and `@false` test true.

In particular, the number 0 and the empty string also test true.

In the `@Rw{repeat}@En@Rw{until}` loop, the inner block does not end at the `@Rw{until}` keyword, but only after the condition.

So, the condition can refer to local variables declared inside the loop block.

The `@Rw{goto}` statement transfers the program control to a label.

For syntactical reasons,

labels in Lua are considered statements too:

```
@index{goto statement}
```

```
@index{label}
```

```
@Produc{
```

```
@producname{stat}@producbody{@Rw{goto} Name}
```

```
@producname{stat}@producbody{label}
```

```
@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}
```

```
}
```

A label is visible in the entire block where it is defined, except inside nested functions.

A goto may jump to any visible label as long as it does not enter into the scope of a local variable.

A label should not be declared

where a label with the same name is visible,

even if this other label has been declared in an enclosing block.

Labels and empty statements are called `@def{void statements}`, as they perform no actions.

The `@Rw{break}` statement terminates the execution of a `@Rw{while}`, `@Rw{repeat}`, or `@Rw{for}` loop, skipping to the next statement after the loop:

```
@index{break statement}
```

```
@Produc{
```

```
@producname{stat}@producbody{@Rw{break}}
```

```
}
```

A `@Rw{break}` ends the innermost enclosing loop.

The `@Rw{return}` statement is used to return values from a function or a chunk

(which is handled as an anonymous function).

```
@index{return statement}
```

Functions can return more than one value,  
so the syntax for the `@Rw{return}` statement is

```
@Produc{  
  @producname{stat}@producbody{@Rw{return} @bnfoft{explist} @bnfoft{@bnfter{;}}}  
}
```

The `@Rw{return}` statement can only be written  
as the last statement of a block.

If it is necessary to `@Rw{return}` in the middle of a block,  
then an explicit inner block can be used,  
as in the idiom `@T{do return end}`,  
because now `@Rw{return}` is the last statement in its (inner) block.

```
}
```

```
@sect3{for| @title{For Statement}
```

```
@index{for statement}
```

The `@Rw{for}` statement has two forms:  
one numerical and one generic.

```
@sect4{@title{The numerical @Rw{for} loop}
```

The numerical `@Rw{for}` loop repeats a block of code while a  
control variable goes through an arithmetic progression.

It has the following syntax:

```
@Produc{  
  @producname{stat}@producbody{@Rw{for} @bnfNter{Name} @bnfter{=}  
  exp @bnfter{,} exp @bnfoft{@bnfter{,} exp} @Rw{do} block @Rw{end}}  
}
```

The given identifier (`@bnfNter{Name}`) defines the control variable,  
which is a new variable local to the loop body (`@emph{block}`).

The loop starts by evaluating once the three control expressions.

Their values are called respectively  
the `@emph{initial value}`, the `@emph{limit}`, and the `@emph{step}`.  
If the step is absent, it defaults `@N{to 1}`.

If both the initial value and the step are integers,  
the loop is done with integers;  
note that the limit may not be an integer.  
Otherwise, the three values are converted to  
floats and the loop is done with floats.  
Beware of floating-point accuracy in this case.

After that initialization,

the loop body is repeated with the value of the control variable going through an arithmetic progression, starting at the initial value, with a common difference given by the step. A negative step makes a decreasing sequence; a step equal to zero raises an error. The loop continues while the value is less than or equal to the limit (greater than or equal to for a negative step). If the initial value is already greater than the limit (or less than, if the step is negative), the body is not executed.

For integer loops, the control variable never wraps around; instead, the loop ends in case of an overflow.

You should not change the value of the control variable during the loop. If you need its value after the loop, assign it to another variable before exiting the loop.

}

@sect4{ @title{The generic @Rw{for} loop}

The generic @Rw{for} statement works over functions, called @def{iterators}.

On each iteration, the iterator function is called to produce a new value, stopping when this new value is @nil.

The generic @Rw{for} loop has the following syntax:

```
@Produc{
@producname{stat}@producbody{ @Rw{for} namelist @Rw{in} explist
    @Rw{do} block @Rw{end}}
@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{ @bnfter{,} @bnfNter{Name} }}
}
```

A @Rw{for} statement like

```
@verbatim{
for @rep{var_1}, @Cdots, @rep{var_n} in @rep{explist} do @rep{body} end
}
```

works as follows.

The names @rep{var\_i} declare loop variables local to the loop body. The first of these variables is the @emph{control variable}.

The loop starts by evaluating @rep{explist} to produce four values:

an `@emph{iterator function}`,  
a `@emph{state}`,  
an initial value for the control variable,  
and a `@emph{closing value}`.

Then, at each iteration,  
Lua calls the iterator function with two arguments:  
the state and the control variable.  
The results from this call are then assigned to the loop variables,  
following the rules of multiple assignments `@see{assignment}`.  
If the control variable becomes `@nil`,  
the loop terminates.  
Otherwise, the body is executed and the loop goes  
to the next iteration.

The closing value behaves like a  
to-be-closed variable `@see{to-be-closed}`,  
which can be used to release resources when the loop ends.  
Otherwise, it does not interfere with the loop.

You should not change the value of the control variable  
during the loop.

}

}

`@sect3{funcstat| @title{Function Calls as Statements}}`

To allow possible side-effects,  
function calls can be executed as statements:

```
@Produc{
  @producname{stat} @producbody{functioncall}
}
```

In this case, all returned values are thrown away.  
Function calls are explained in `@See{functioncall}`.

}

`@sect3{localvar| @title{Local Declarations}}`

`@x{Local variables}` can be declared anywhere inside a block.

The declaration can include an initialization:

```
@Produc{
  @producname{stat} @producbody{ @Rw{local} attnamelist @bnfopt{ @bnfter{=} explist }
  @producname{attnamelist} @producbody{
    @bnfNter{Name} attrib @bnfrep{ @bnfter{,} @bnfNter{Name} attrib }
  }
}
```

If present, an initial assignment has the same semantics  
of a multiple assignment `@see{assignment}`.



Otherwise, all variables are initialized with @nil.

Each variable name may be postfixed by an attribute  
(a name between angle brackets):

```
@Product{  
  @productname{attrib}@productbody{@bnfopt{@bnfter{<}@bnfNter{Name}@bnfter{>}}}  
}
```

There are two possible attributes:

@id{const}, which declares a @x{constant variable},  
that is, a variable that cannot be assigned to  
after its initialization;  
and @id{close}, which declares a to-be-closed variable @see{to-be-closed}.

A list of variables can contain at most one to-be-closed variable.

A chunk is also a block @see{chunks},  
and so local variables can be declared in a chunk outside any explicit block.

The visibility rules for local variables are explained in @See{visibility}.

```
}
```

```
@sect3{to-be-closed|@title{To-be-closed Variables}}
```

A to-be-closed variable behaves like a constant local variable,  
except that its value is @emph{closed} whenever the variable  
goes out of scope, including normal block termination,  
exiting its block by @Rw{break}/@Rw{goto}/@Rw{return},  
or exiting by an error.

Here, to @emph{close} a value means  
to call its @idx{\_\_close} metamethod.  
When calling the metamethod,  
the value itself is passed as the first argument  
and the error object that caused the exit (if any)  
is passed as a second argument;  
if there was no error, the second argument is @nil.

The value assigned to a to-be-closed variable  
must have a @idx{\_\_close} metamethod  
or be a false value.  
(@nil and @false are ignored as to-be-closed values.)

If several to-be-closed variables go out of scope at the same event,  
they are closed in the reverse order that they were declared.

If there is any error while running a closing method,  
that error is handled like an error in the regular code  
where the variable was defined.

After an error,  
the other pending closing methods will still be called.

If a coroutine yields and is never resumed again,  
some variables may never go out of scope,  
and therefore they will never be closed.

(These variables are the ones created inside the coroutine  
and in scope at the point where the coroutine yielded.)

Similarly, if a coroutine ends with an error,  
it does not unwind its stack,  
so it does not close any variable.

In both cases,  
you can either use finalizers  
or call `@Lid{coroutine.close}` to close the variables.  
However, if the coroutine was created  
through `@Lid{coroutine.wrap}`,  
then its corresponding function will close the coroutine  
in case of errors.

```
}
```

```
}
```

```
@sect2{expressions| @title{Expressions}}
```

```
@simplesect{
```

The basic expressions in Lua are the following:

```
@Produc{
@producname{exp}@producbody{prefixexp}
@producname{exp}@producbody{@Rw{nil} @Or @Rw{false} @Or @Rw{true}}
@producname{exp}@producbody{@bnfNter{Numeral}}
@producname{exp}@producbody{@bnfNter{LiteralString}}
@producname{exp}@producbody{functiondef}
@producname{exp}@producbody{tableconstructor}
@producname{exp}@producbody{@bnfter{...}}
@producname{exp}@producbody{exp binop exp}
@producname{exp}@producbody{unop exp}
@producname{prefixexp}@producbody{var @Or functioncall @Or
    @bnfter{(} exp @bnfter{)}}
}
```

Numerals and literal strings are explained in `@See{lexical}`;

variables are explained in `@See{variables}`;

function definitions are explained in `@See{func-def}`;

function calls are explained in `@See{functioncall}`;

table constructors are explained in `@See{tableconstructor}`.

Vararg expressions,

denoted by three dots (`@Char{...}`), can only be used when directly inside a vararg function; they are explained in `@See{func-def}`.

Binary operators comprise arithmetic operators `@see{arith}`, bitwise operators `@see{bitwise}`, relational operators `@see{rel-ops}`, logical operators `@see{logic}`, and the concatenation operator `@see{concat}`.

Unary operators comprise the unary minus `@see{arith}`, the unary bitwise NOT `@see{bitwise}`, the unary logical `@Rw{not} @see{logic}`, and the unary `@def{length operator} @see{len-op}`.

Both function calls and vararg expressions can result in multiple values.

If a function call is used as a statement `@see{funcstat}`, then its return list is adjusted to zero elements, thus discarding all returned values.

If an expression is used as the last (or the only) element of a list of expressions, then no adjustment is made (unless the expression is enclosed in parentheses).

In all other contexts,

Lua adjusts the result list to one element, either discarding all values except the first one or adding a single `@nil` if there are no values.

Here are some examples:

```
@verbatim{
f()          -- adjusted to 0 results
g(f(), x)    -- f() is adjusted to 1 result
g(x, f())    -- g gets x plus all results from f()
a,b,c = f(), x -- f() is adjusted to 1 result (c gets nil)
a,b = ...    -- a gets the first vararg argument, b gets
              -- the second (both a and b can get nil if there
              -- is no corresponding vararg argument)

a,b,c = x, f() -- f() is adjusted to 2 results
a,b,c = f()    -- f() is adjusted to 3 results
return f()    -- returns all results from f()
return ...    -- returns all received vararg arguments
return x,y,f() -- returns x, y, and all results from f()
{f()}        -- creates a list with all results from f()
{...}       -- creates a list with all vararg arguments
{f(), nil}  -- f() is adjusted to 1 result
}
```

Any expression enclosed in parentheses always results in only one value.

Thus,

`@T{(f(x,y,z))}` is always a single value,  
even if `@id{f}` returns several values.  
(The value of `@T{(f(x,y,z))}` is the first value returned by `@id{f}`  
or `@nil` if `@id{f}` does not return any values.)

}

```
@sect3{arith| @title{Arithmetic Operators}
Lua supports the following @x{arithmetic operators}:
@description{
@item{ @T{+}|addition}
@item{ @T{-}|subtraction}
@item{ @T{*}|multiplication}
@item{ @T{/}|float division}
@item{ @T{//}|floor division}
@item{ @T{%}|modulo}
@item{ @T{^}|exponentiation}
@item{ @T{-}|unary minus}
}
```

With the exception of exponentiation and float division,  
the arithmetic operators work as follows:  
If both operands are integers,  
the operation is performed over integers and the result is an integer.  
Otherwise, if both operands are numbers,  
then they are converted to floats,  
the operation is performed following the machine's rules  
for floating-point arithmetic  
(usually the `@x{IEEE 754}` standard),  
and the result is a float.  
(The string library coerces strings to numbers in  
arithmetic operations; see `@See{coercion}` for details.)

Exponentiation and float division (`@T{/}`)  
always convert their operands to floats  
and the result is always a float.  
Exponentiation uses the `@ANSI{pow}`,  
so that it works for non-integer exponents too.

Floor division (`@T{//}`) is a division  
that rounds the quotient towards minus infinity,  
resulting in the floor of the division of its operands.

Modulo is defined as the remainder of a division  
that rounds the quotient towards minus infinity (floor division).

In case of overflows in integer arithmetic,

all operations @emphx{wrap around}.

}

@sect3{bitwise| @title{Bitwise Operators}

Lua supports the following @x{bitwise operators}:

@description{

@item{ @T{&}|bitwise AND}

@item{ @T{ @VerBar }|bitwise OR}

@item{ @T{~}|bitwise exclusive OR}

@item{ @T{>>}|right shift}

@item{ @T{<<}|left shift}

@item{ @T{~}|unary bitwise NOT}

}

All bitwise operations convert its operands to integers

@see{coercion},

operate on all bits of those integers,

and result in an integer.

Both right and left shifts fill the vacant bits with zeros.

Negative displacements shift to the other direction;

displacements with absolute values equal to or higher than

the number of bits in an integer

result in zero (as all bits are shifted out).

}

@sect3{coercion| @title{Coercions and Conversions}

Lua provides some automatic conversions between some types and representations at run time.

Bitwise operators always convert float operands to integers.

Exponentiation and float division

always convert integer operands to floats.

All other arithmetic operations applied to mixed numbers

(integers and floats) convert the integer operand to a float.

The C API also converts both integers to floats and

floats to integers, as needed.

Moreover, string concatenation accepts numbers as arguments, besides strings.

In a conversion from integer to float,

if the integer value has an exact representation as a float,

that is the result.

Otherwise,

the conversion gets the nearest higher or

the nearest lower representable value.

This kind of conversion never fails.

The conversion from float to integer checks whether the float has an exact representation as an integer (that is, the float has an integral value and it is in the range of integer representation). If it does, that representation is the result. Otherwise, the conversion fails.

Several places in Lua coerce strings to numbers when necessary. In particular, the string library sets metamethods that try to coerce strings to numbers in all arithmetic operations. If the conversion fails, the library calls the metamethod of the other operand (if present) or it raises an error. Note that bitwise operators do not do this coercion.

Nonetheless, it is always a good practice not to rely on these implicit coercions, as they are not always applied; in particular, `@T{"1"==1}` is false and `@T{"1"<1}` raises an error `@see{rel-ops}`. These coercions exist mainly for compatibility and may be removed in future versions of the language.

A string is converted to an integer or a float following its syntax and the rules of the Lua lexer. The string may have also leading and trailing whitespaces and a sign. All conversions from strings to numbers accept both a dot and the current locale mark as the radix character. (The Lua lexer, however, accepts only a dot.) If the string is not a valid numeral, the conversion fails. If necessary, the result of this first step is then converted to a specific number subtype following the previous rules for conversions between floats and integers.

The conversion from numbers to strings uses a non-specified human-readable format. To convert numbers to strings in any specific way, use the function `@Lid{string.format}`.

}

`@sect3{rel-ops| @title{Relational Operators}`  
Lua supports the following `@x{relational operators}`:  
`@description{`  
`@item{ @T{==}|equality }`  
`@item{ @T{~=}|inequality }`

```

@item{ @T{<}|less than }
@item{ @T{>}|greater than }
@item{ @T{<=}|less or equal }
@item{ @T{>=}|greater or equal }
}

```

These operators always result in @false or @true.

Equality (@T{==}) first compares the type of its operands.

If the types are different, then the result is @false.

Otherwise, the values of the operands are compared.

Strings are equal if they have the same byte content.

Numbers are equal if they denote the same mathematical value.

Tables, userdata, and threads

are compared by reference:

two objects are considered equal only if they are the same object.

Every time you create a new object

(a table, a userdata, or a thread),

this new object is different from any previously existing object.

A function is always equal to itself.

Functions with any detectable difference

(different behavior, different definition) are always different.

Functions created at different times but with no detectable differences

may be classified as equal or not

(depending on internal caching details).

You can change the way that Lua compares tables and userdata

by using the @idx{\_\_eq} metamethod @see{metatable}.

Equality comparisons do not convert strings to numbers

or vice versa.

Thus, @T{"0"==0} evaluates to @false,

and @T{t[0]} and @T{t["0"]} denote different

entries in a table.

The operator @T{~=} is exactly the negation of equality (@T{==}).

The order operators work as follows.

If both arguments are numbers,

then they are compared according to their mathematical values,

regardless of their subtypes.

Otherwise, if both arguments are strings,

then their values are compared according to the current locale.

Otherwise, Lua tries to call the @idx{\_\_lt} or the @idx{\_\_le}

metamethod @see{metatable}.

A comparison @T{a > b} is translated to @T{b < a}

and @T{a >= b} is translated to @T{b <= a}.

Following the @x{IEEE 754} standard,  
the special value @x{NaN} is considered neither less than,  
nor equal to, nor greater than any value, including itself.

}

### @sect3{logic| @title{Logical Operators}}

The @x{logical operators} in Lua are  
@Rw{and}, @Rw{or}, and @Rw{not}.

Like the control structures @see{control},  
all logical operators consider both @false and @nil as false  
and anything else as true.

The negation operator @Rw{not} always returns @false or @true.

The conjunction operator @Rw{and} returns its first argument  
if this value is @false or @nil;

otherwise, @Rw{and} returns its second argument.

The disjunction operator @Rw{or} returns its first argument  
if this value is different from @nil and @false;

otherwise, @Rw{or} returns its second argument.

Both @Rw{and} and @Rw{or} use @x{short-circuit evaluation};  
that is,

the second operand is evaluated only if necessary.

Here are some examples:

```
@verbatim{
10 or 20      --> 10
10 or error() --> 10
nil or "a"   --> "a"
nil and 10   --> nil
false and error() --> false
false and nil --> false
false or nil  --> nil
10 and 20    --> 20
}
```

}

### @sect3{concat| @title{Concatenation}}

The string @x{concatenation} operator in Lua is  
denoted by two dots (@Char{..}).

If both operands are strings or numbers,  
then the numbers are converted to strings  
in a non-specified format @see{coercion}.

Otherwise, the @idx{\_\_concat} metamethod is called @see{metatable}.

}

### @sect3{len-op| @title{The Length Operator}}



The length operator is denoted by the unary prefix operator `@T{#}`.

The length of a string is its number of bytes.  
(That is the usual meaning of string length when each character is one byte.)

The length operator applied on a table returns a `@x{border}` in that table. A `@def{border}` in a table `@id{t}` is any non-negative integer that satisfies the following condition:

```
@verbatim{
(border == 0 or t[border] ~= nil) and
(t[border + 1] == nil or border == math.maxinteger)
}
```

In words,  
a border is any positive integer index present in the table that is followed by an absent index,  
plus two limit cases:  
zero, when index 1 is absent;  
and the maximum value for an integer, when that index is present.  
Note that keys that are not positive integers do not interfere with borders.

A table with exactly one border is called a `@def{sequence}`.  
For instance, the table `@T{{10, 20, 30, 40, 50}}` is a sequence, as it has only one border (5).  
The table `@T{{10, 20, 30, nil, 50}}` has two borders (3 and 5), and therefore it is not a sequence.  
(The `@nil` at index 4 is called a `@emphx{hole}`.)  
The table `@T{{nil, 20, 30, nil, nil, 60, nil}}` has three borders (0, 3, and 6), so it is not a sequence, too.  
The table `@T{{}}` is a sequence with border 0.

When `@id{t}` is a sequence,  
`@T{#t}` returns its only border,  
which corresponds to the intuitive notion of the length of the sequence.  
When `@id{t}` is not a sequence,  
`@T{#t}` can return any of its borders.  
(The exact one depends on details of the internal representation of the table,  
which in turn can depend on how the table was populated and the memory addresses of its non-numeric keys.)

The computation of the length of a table has a guaranteed worst time of `@M{O(log n)}`, where `@M{n}` is the largest integer key in the table.

A program can modify the behavior of the length operator for any value but strings through the @idx{\_\_len} metamethod @see{metatable}.

```
}
```

```
@sect3{prec| @title{Precedence}
```

@x{Operator precedence} in Lua follows the table below, from lower to higher priority:

```
@verbatim{
```

```
or
```

```
and
```

```
< > <= >= ~= ==
```

```
|
```

```
~
```

```
&
```

```
<< >>
```

```
..
```

```
+ -
```

```
* / // %
```

```
unary operators (not # - ~)
```

```
^
```

```
}
```

As usual,

you can use parentheses to change the precedences of an expression.

The concatenation (@Char{..}) and exponentiation (@Char{^})

operators are right associative.

All other binary operators are left associative.

```
}
```

```
@sect3{tableconstructor| @title{Table Constructors}
```

Table @x{constructors} are expressions that create tables.

Every time a constructor is evaluated, a new table is created.

A constructor can be used to create an empty table

or to create a table and initialize some of its fields.

The general syntax for constructors is

```
@Produc{
```

```
@producname{tableconstructor}@prodocbody{ @bnfter{ @Open } @bnfoft{fieldlist} @bnfter{ @Close } }
```

```
@producname{fieldlist}@prodocbody{field @bnfrep{fieldsep field} @bnfoft{fieldsep} }
```

```
@producname{field}@prodocbody{ @bnfter{[ ] exp @bnfter{[ ]} @bnfter{=} exp @Or
```

```
 @bnfNter{Name} @bnfter{=} exp @Or exp }
```

```
@producname{fieldsep}@prodocbody{ @bnfter{,} @Or @bnfter{;} }
```

```
}
```

Each field of the form @T{[exp1] = exp2} adds to the new table an entry with key @id{exp1} and value @id{exp2}.

A field of the form @T{name = exp} is equivalent to

@T{"name"} = exp}.

Fields of the form @id{exp} are equivalent to

@T{[i] = exp}, where @id{i} are consecutive integers starting with 1;

fields in the other formats do not affect this counting.

For example,

```
@verbatim{
```

```
a = { [f(1)] = g; "x", "y"; x = 1, f(x), [30] = 23; 45 }
```

is equivalent to

```
@verbatim{
```

```
do
```

```
local t = { }
```

```
t[f(1)] = g
```

```
t[1] = "x"    -- 1st exp
```

```
t[2] = "y"    -- 2nd exp
```

```
t.x = 1       -- t["x"] = 1
```

```
t[3] = f(x)   -- 3rd exp
```

```
t[30] = 23
```

```
t[4] = 45     -- 4th exp
```

```
a = t
```

```
end
```

```
}
```

The order of the assignments in a constructor is undefined.

(This order would be relevant only when there are repeated keys.)

If the last field in the list has the form @id{exp}

and the expression is a function call or a vararg expression,

then all values returned by this expression enter the list consecutively

@see{functioncall}.

The field list can have an optional trailing separator,

as a convenience for machine-generated code.

```
}
```

```
@sect3{functioncall| @title{Function Calls}
```

A @x{function call} in Lua has the following syntax:

```
@Produc{
```

```
@productname{functioncall}@productbody{prefixexp args}
```

```
}
```

In a function call,

first @bnfNter{prefixexp} and @bnfNter{args} are evaluated.

If the value of @bnfNter{prefixexp} has type @emph{function},

then this function is called

with the given arguments.

Otherwise, if present,

the `@bnfNter{prefixexp} @idx{__call}` metamethod is called:  
its first argument is the value of `@bnfNter{prefixexp}`,  
followed by the original call arguments  
`@see{metatable}`.

The form

```
@Produc{  
  @producname{functioncall}@producbody{prefixexp @bnfter{:} @bnfNter{Name} args}  
}
```

can be used to emulate methods.

A call `@T{v:name(@rep{args})}`  
is syntactic sugar for `@T{v.name(v,@rep{args})}`,  
except that `@id{v}` is evaluated only once.

Arguments have the following syntax:

```
@Produc{  
  @producname{args}@producbody{ @bnfter{(} @bnfopt{explist} @bnfter{)}}  
  @producname{args}@producbody{tableconstructor}  
  @producname{args}@producbody{ @bnfNter{LiteralString}}  
}
```

All argument expressions are evaluated before the call.

A call of the form `@T{f{@rep{fields}}}` is  
syntactic sugar for `@T{f({@rep{fields}})}`;  
that is, the argument list is a single new table.

A call of the form `@T{f'@rep{string}'}`  
(or `@T{f"@rep{string}"}` or `@T{f[[@rep{string}]}`)  
is syntactic sugar for `@T{f('@rep{string}')`;  
that is, the argument list is a single literal string.

A call of the form `@T{return @rep{functioncall}}` not in the  
scope of a to-be-closed variable is called a `@def{tail call}`.

Lua implements `@def{proper tail calls}`

(or `@def{proper tail recursion}`):

in a tail call,

the called function reuses the stack entry of the calling function.

Therefore, there is no limit on the number of nested tail calls that  
a program can execute.

However, a tail call erases any debug information about the  
calling function.

Note that a tail call only happens with a particular syntax,  
where the `@Rw{return}` has one single function call as argument,  
and it is outside the scope of any to-be-closed variable.

This syntax makes the calling function return exactly  
the returns of the called function,  
without any intervening action.

So, none of the following examples are tail calls:

```
@verbatim{  
return (f(x))    -- results adjusted to 1
```

```

return 2 * f(x)  -- result multiplied by 2
return x, f(x)  -- additional results
f(x); return    -- results discarded
return x or f(x) -- results adjusted to 1
}

}

```

```
@sect3{func-def} @title{Function Definitions}
```

The syntax for function definition is

```

@Produc{
@producname{functiondef}@producbody{@Rw{function} funcbody}
@producname{funcbody}@producbody{@bnfter{()} @bnfopt{parlist} @bnfter{}} block @Rw{end}}
}

```

The following syntactic sugar simplifies function definitions:

```

@Produc{
@producname{stat}@producbody{@Rw{function} funcname funcbody}
@producname{stat}@producbody{@Rw{local} @Rw{function} @bnfNter{Name} funcbody}
@producname{funcname}@producbody{@bnfNter{Name} @bnfrep{@bnfter{.} @bnfNter{Name}}}
@bnfopt{@bnfter{:} @bnfNter{Name}}}}
}

```

The statement

```

@verbatim{
function f () @rep{body} end
}

```

translates to

```

@verbatim{
f = function () @rep{body} end
}

```

The statement

```

@verbatim{
function t.a.b.c.f () @rep{body} end
}

```

translates to

```

@verbatim{
t.a.b.c.f = function () @rep{body} end
}

```

The statement

```

@verbatim{
local function f () @rep{body} end
}

```

translates to

```

@verbatim{
local f; f = function () @rep{body} end
}

```

not to

```
@verbatim{
local f = function () @rep{body} end
}
```

(This only makes a difference when the body of the function contains references to @id{f}.)

A function definition is an executable expression, whose value has type @emph{function}. When Lua precompiles a chunk, all its function bodies are precompiled too, but they are not created yet. Then, whenever Lua executes the function definition, the function is @emph{instantiated} (or @emph{closed}). This function instance, or @emphx{closure}, is the final value of the expression.

Parameters act as local variables that are initialized with the argument values:

```
@Produc{
@producname{parlist}@producbody{namelist @bnfoft{ @bnfter{,} @bnfter{...} } @Or
@bnfter{...}
}
```

When a Lua function is called, it adjusts its list of @x{arguments} to the length of its list of parameters, unless the function is a @def{vararg function}, which is indicated by three dots (@Char{...}) at the end of its parameter list.

A vararg function does not adjust its argument list; instead, it collects all extra arguments and supplies them to the function through a @def{vararg expression}, which is also written as three dots.

The value of this expression is a list of all actual extra arguments, similar to a function with multiple results.

If a vararg expression is used inside another expression or in the middle of a list of expressions, then its return list is adjusted to one element.

If the expression is used as the last element of a list of expressions, then no adjustment is made (unless that last expression is enclosed in parentheses).

As an example, consider the following definitions:

```
@verbatim{
function f(a, b) end
function g(a, b, ...) end
function r() return 1,2,3 end
}
```

Then, we have the following mapping from arguments to parameters and to the vararg expression:

```
@verbatim{
```

```
CALL      PARAMETERS
```

```
f(3)      a=3, b=nil
```

```
f(3, 4)   a=3, b=4
```

```
f(3, 4, 5) a=3, b=4
```

```
f(r(), 10) a=1, b=10
```

```
f(r())    a=1, b=2
```

```
g(3)      a=3, b=nil, ... --> (nothing)
```

```
g(3, 4)   a=3, b=4, ... --> (nothing)
```

```
g(3, 4, 5, 8) a=3, b=4, ... --> 5 8
```

```
g(5, r())  a=5, b=1, ... --> 2 3
```

```
}
```

Results are returned using the `@Rw{return}` statement `@see{control}`.

If control reaches the end of a function without encountering a `@Rw{return}` statement, then the function returns with no results.

```
@index{multiple return}
```

There is a system-dependent limit on the number of values that a function may return.

This limit is guaranteed to be greater than 1000.

The `@emphx{colon}` syntax is used to emulate `@def{methods}`, adding an implicit extra parameter `@idx{self}` to the function.

Thus, the statement

```
@verbatim{
```

```
function t.a.b.c:f (@rep{params}) @rep{body} end
```

```
}
```

is syntactic sugar for

```
@verbatim{
```

```
t.a.b.c.f = function (self, @rep{params}) @rep{body} end
```

```
}
```

```
}
```

```
}
```

```
@sect2{visibility| @title{Visibility Rules}}
```

```
@index{visibility}
```

Lua is a lexically scoped language.

The scope of a local variable begins at the first statement after

its declaration and lasts until the last non-void statement of the innermost block that includes the declaration.

Consider the following example:

```
@verbatim{
x = 10          -- global variable
do             -- new block
  local x = x   -- new 'x', with value 10
  print(x)     --> 10
  x = x+1
do             -- another block
  local x = x+1 -- another 'x'
  print(x)     --> 12
end
print(x)      --> 11
end
print(x)      --> 10 (the global one)
}
```

Notice that, in a declaration like `@T{local x = x}`, the new `@id{x}` being declared is not in scope yet, and so the second `@id{x}` refers to the outside variable.

Because of the `@x{lexical scoping}` rules, local variables can be freely accessed by functions defined inside their scope.

A local variable used by an inner function is called an `@def{upvalue}` (or `@emphx{external local variable}`, or simply `@emphx{external variable}`) inside the inner function.

Notice that each execution of a `@Rw{local}` statement defines new local variables.

Consider the following example:

```
@verbatim{
a = {}
local x = 20
for i = 1, 10 do
  local y = 0
  a[i] = function () y = y + 1; return x + y end
end
}
}
```

The loop creates ten closures (that is, ten instances of the anonymous function). Each of these closures uses a different `@id{y}` variable, while all of them share the same `@id{x}`.

```
}
```

```
}
```



```
@C{-----}
```

```
@sect1{API|@title{The Application Program Interface}}
```

```
@simplesect{
```

```
@index{C API}
```

This section describes the @N{C API} for Lua, that is, the set of @N{C functions} available to the host program to communicate with Lua.

All API functions and related types and constants are declared in the header file @defid{lua.h}.

Even when we use the term @Q{function}, any facility in the API may be provided as a macro instead. Except where stated otherwise, all such macros use each of their arguments exactly once (except for the first argument, which is always a Lua state), and so do not generate any hidden side-effects.

As in most @N{C libraries}, the Lua API functions do not check their arguments for validity or consistency. However, you can change this behavior by compiling Lua with the macro @defid{LUA\_USE\_APICHECK} defined.

The Lua library is fully reentrant: it has no global variables. It keeps all information it needs in a dynamic structure, called the @def{Lua state}.

Each Lua state has one or more threads, which correspond to independent, cooperative lines of execution. The type @Lid{lua\_State} (despite its name) refers to a thread. (Indirectly, through the thread, it also refers to the Lua state associated to the thread.)

A pointer to a thread must be passed as the first argument to every function in the library, except to @Lid{lua\_newstate}, which creates a Lua state from scratch and returns a pointer to the @emph{main thread} in the new state.

```
}
```

```
@sect2{@title{The Stack}}
```

@simplesect{

Lua uses a @emph{virtual stack} to pass values to and from C. Each element in this stack represents a Lua value (@nil, number, string, etc.). Functions in the API can access this stack through the Lua state parameter that they receive.

Whenever Lua calls C, the called function gets a new stack, which is independent of previous stacks and of stacks of @N{C functions} that are still active. This stack initially contains any arguments to the @N{C function} and it is where the @N{C function} can store temporary Lua values and must push its results to be returned to the caller @seeC{lua\_CFunction}.

For convenience, most query operations in the API do not follow a strict stack discipline. Instead, they can refer to any element in the stack by using an @emph{index}:@index{index (API stack)} A positive index represents an absolute stack position, starting @N{at 1} as the bottom of the stack; a negative index represents an offset relative to the top of the stack. More specifically, if the stack has @rep{n} elements, then @N{index 1} represents the first element (that is, the element that was pushed onto the stack first) and @N{index @rep{n}} represents the last element; @N{index @num{-1}} also represents the last element (that is, the element at @N{the top}) and index @M{-n} represents the first element.

}

@sect3{stacksize| @title{Stack Size}}

When you interact with the Lua API, you are responsible for ensuring consistency. In particular, @emph{you are responsible for controlling stack overflow}. When you call any API function, you must ensure the stack has enough room to accommodate the results.

There is one exception to the above rule: When you call a Lua function without a fixed number of results @seeF{lua\_call}, Lua ensures that the stack has enough space for all results. However, it does not ensure any extra space.

So, before pushing anything on the stack after such a call you should use `@Lid{lua_checkstack}`.

Whenever Lua calls C, it ensures that the stack has space for at least `@defid{LUA_MINSTACK}` extra elements; that is, you can safely push up to `@id{LUA_MINSTACK}` values into it. `@id{LUA_MINSTACK}` is defined as 20, so that usually you do not have to worry about stack space unless your code has loops pushing elements onto the stack. Whenever necessary, you can use the function `@Lid{lua_checkstack}` to ensure that the stack has enough space for pushing new elements.

}

@sect3{ @title{Valid and Acceptable Indices}

Any function in the API that receives stack indices works only with `@emphx{valid indices}` or `@emphx{acceptable indices}`.

A `@def{valid index}` is an index that refers to a position that stores a modifiable Lua value. It comprises stack indices `@N{between 1}` and the stack top (`@T{1 @leq abs(index) @leq top}`) `@index{stack index}` plus `@def{pseudo-indices}`, which represent some positions that are accessible to `@N{C code}` but that are not in the stack. Pseudo-indices are used to access the registry `@see{registry}` and the upvalues of a `@N{C function}` `@see{c-closure}`.

Functions that do not need a specific mutable position, but only a value (e.g., query functions), can be called with acceptable indices. An `@def{acceptable index}` can be any valid index, but it also can be any positive index after the stack top within the space allocated for the stack, that is, indices up to the stack size. (Note that 0 is never an acceptable index.) Indices to upvalues `@see{c-closure}` greater than the real number of upvalues in the current `@N{C function}` are also acceptable (but invalid). Except when noted otherwise, functions in the API work with acceptable indices.

Acceptable indices serve to avoid extra tests against the stack top when querying the stack. For instance, a `@N{C function}` can query its third argument

without the need to check whether there is a third argument, that is, without the need to check whether 3 is a valid index.

For functions that can be called with acceptable indices, any non-valid index is treated as if it contains a value of a virtual type @defid{LUA\_TNONE}, which behaves like a nil value.

}

@sect3{constchar|@title{Pointers to strings}}

Several functions in the API return pointers (@T{const char\*}) to Lua strings in the stack.

(See @Lid{lua\_pushfstring}, @Lid{lua\_pushlstring}, @Lid{lua\_pushstring}, and @Lid{lua\_tolstring}.

See also @Lid{luaL\_checkstring}, @Lid{luaL\_checkstring}, and @Lid{luaL\_tolstring} in the auxiliary library.)

In general,

Lua's garbage collection can free or move internal memory and then invalidate pointers to internal strings.

To allow a safe use of these pointers,

The API guarantees that any pointer to a string in a stack index is valid while the string value at that index is not removed from the stack.

(It can be moved to another index, though.)

When the index is a pseudo-index (referring to an upvalue), the pointer is valid while the corresponding call is active and the corresponding upvalue is not modified.

Some functions in the debug interface also return pointers to strings,

namely @Lid{lua\_getlocal}, @Lid{lua\_getupvalue}, @Lid{lua\_setlocal}, and @Lid{lua\_setupvalue}.

For these functions, the pointer is guaranteed to be valid while the caller function is active and the given closure (if one was given) is in the stack.

Except for these guarantees, the garbage collector is free to invalidate any pointer to internal strings.

}

}

@sect2{c-closure|@title{C Closures}}

When a `@N{C function}` is created, it is possible to associate some values with it, thus creating a `@def{ @N{C closure} }` `@seeC{lua_pushcclosure}`; these values are called `@def{upvalues}` and are accessible to the function whenever it is called.

Whenever a `@N{C function}` is called, its upvalues are located at specific pseudo-indices. These pseudo-indices are produced by the macro `@Lid{lua_upvalueindex}`. The first upvalue associated with a function is at index `@T{lua_upvalueindex(1)}`, and so on. Any access to `@T{lua_upvalueindex(@rep{n})}`, where `@rep{n}` is greater than the number of upvalues of the current function (but not greater than 256, which is one plus the maximum number of upvalues in a closure), produces an acceptable but invalid index.

A `@N{C closure}` can also change the values of its corresponding upvalues.

}

`@sect2{registry| @title{Registry}`

Lua provides a `@def{registry}`, a predefined table that can be used by any `@N{C code}` to store whatever Lua values it needs to store.

The registry table is always accessible at pseudo-index `@defid{LUA_REGISTRYINDEX}`.

Any `@N{C library}` can store data into this table, but it must take care to choose keys that are different from those used by other libraries, to avoid collisions.

Typically, you should use as key a string containing your library name, or a light userdata with the address of a `@N{C object}` in your code, or any Lua object created by your code.

As with variable names, string keys starting with an underscore followed by uppercase letters are reserved for Lua.

The integer keys in the registry are used by the reference mechanism `@seeC{luaL_ref}` and by some predefined values.

Therefore, integer keys in the registry must not be used for other purposes.

When you create a new Lua state,  
its registry comes with some predefined values.  
These predefined values are indexed with integer keys  
defined as constants in @id{lua.h}.

The following constants are defined:

```
@description{
@item{ @defid{LUA_RIDX_MAINTHREAD}}| At this index the registry has
the main thread of the state.
(The main thread is the one created together with the state.)
}
```

```
@item{ @defid{LUA_RIDX_GLOBALS}}| At this index the registry has
the @x{global environment}.
}
}
}
```

```
@sect2{C-error|@title{Error Handling in C}
```

```
@simplesect{
```

Internally, Lua uses the C @id{longjmp} facility to handle errors.  
(Lua will use exceptions if you compile it as C++;  
search for @id{LUAL\_THROW} in the source code for details.)

When Lua faces any error,  
such as a @x{memory allocation error} or a type error,  
it @emph{raises} an error;  
that is, it does a long jump.  
A @emphx{protected environment} uses @id{setjmp}  
to set a recovery point;  
any error jumps to the most recent active recovery point.

Inside a @N{C function} you can raise an error explicitly  
by calling @Lid{lua\_error}.

Most functions in the API can raise an error,  
for instance due to a @x{memory allocation error}.  
The documentation for each function indicates whether  
it can raise errors.

If an error happens outside any protected environment,  
Lua calls a @def{panic function} (see @Lid{lua\_atpanic})  
and then calls @T{abort},  
thus exiting the host application.

Your panic function can avoid this exit by  
never returning

(e.g., doing a long jump to your own recovery point outside Lua).

The panic function,  
as its name implies,  
is a mechanism of last resort.  
Programs should avoid it.

As a general rule,  
when a @N{C function} is called by Lua with a Lua state,  
it can do whatever it wants on that Lua state,  
as it should be already protected.

However,  
when C code operates on other Lua states  
(e.g., a Lua-state argument to the function,  
a Lua state stored in the registry, or  
the result of @Lid{lua\_newthread}),  
it should use them only in API calls that cannot raise errors.

The panic function runs as if it were a @x{message handler} @see{error};  
in particular, the error object is on the top of the stack.  
However, there is no guarantee about stack space.  
To push anything on the stack,  
the panic function must first check the available space @see{stacksize}.

}

@sect3{statuscodes|@title{Status Codes}}

Several functions that report errors in the API use the following  
status codes to indicate different kinds of errors or other conditions:

@description{

@item{@defid{LUA\_OK} (0)| no errors.}

@item{@defid{LUA\_ERRRUN}| a runtime error.}

@item{@defid{LUA\_ERRMEM}|

@x{memory allocation error}.

For such errors, Lua does not call the @x{message handler}.

}

@item{@defid{LUA\_ERRERR}| error while running the @x{message handler}.

@item{@defid{LUA\_ERRSYNTAX}| syntax error during precompilation.}

@item{@defid{LUA\_YIELD}| the thread (coroutine) yields.}

@item{@defid{LUA\_ERRFILE}| a file-related error;

e.g., it cannot open or read the file.)

}

These constants are defined in the header file @id{lua.h}.

}

}

@sect2{continuations|@title{Handling Yields in C}}

Internally, Lua uses the C @id{longjmp} facility to yield a coroutine. Therefore, if a @N{C function} @id{foo} calls an API function and this API function yields (directly or indirectly by calling another function that yields), Lua cannot return to @id{foo} any more, because the @id{longjmp} removes its frame from the @N{C stack}.

To avoid this kind of problem, Lua raises an error whenever it tries to yield across an API call, except for three functions: @Lid{lua\_yieldk}, @Lid{lua\_callk}, and @Lid{lua\_pcallk}. All those functions receive a @def{continuation function} (as a parameter named @id{k}) to continue execution after a yield.

We need to set some terminology to explain continuations. We have a @N{C function} called from Lua which we will call the @emph{original function}. This original function then calls one of those three functions in the C API, which we will call the @emph{callee function}, that then yields the current thread. This can happen when the callee function is @Lid{lua\_yieldk}, or when the callee function is either @Lid{lua\_callk} or @Lid{lua\_pcallk} and the function called by them yields.

Suppose the running thread yields while executing the callee function. After the thread resumes, it eventually will finish running the callee function. However, the callee function cannot return to the original function, because its frame in the @N{C stack} was destroyed by the yield. Instead, Lua calls a @def{continuation function}, which was given as an argument to the callee function. As the name implies, the continuation function should continue the task of the original function.

As an illustration, consider the following function:



```
@verbatim{
int original_function (lua_State *L) {
... /* code 1 */
status = lua_pcall(L, n, m, h); /* calls Lua */
... /* code 2 */
}
}
```

Now we want to allow  
the Lua code being run by @Lid{lua\_pcall} to yield.  
First, we can rewrite our function like here:

```
@verbatim{
int k (lua_State *L, int status, lua_KContext ctx) {
... /* code 2 */
}
}
```

```
int original_function (lua_State *L) {
... /* code 1 */
return k(L, lua_pcall(L, n, m, h), ctx);
}
}
```

In the above code,  
the new function @id{k} is a  
@emph{continuation function} (with type @Lid{lua\_KFunction}),  
which should do all the work that the original function  
was doing after calling @Lid{lua\_pcall}.

Now, we must inform Lua that it must call @id{k} if the Lua code  
being executed by @Lid{lua\_pcall} gets interrupted in some way  
(errors or yielding),

so we rewrite the code as here,  
replacing @Lid{lua\_pcall} by @Lid{lua\_pcallk}:

```
@verbatim{
int original_function (lua_State *L) {
... /* code 1 */
return k(L, lua_pcallk(L, n, m, h, ctx2, k), ctx1);
}
}
```

Note the external, explicit call to the continuation:

Lua will call the continuation only if needed, that is,  
in case of errors or resuming after a yield.

If the called function returns normally without ever yielding,  
@Lid{lua\_pcallk} (and @Lid{lua\_callk}) will also return normally.  
(Of course, instead of calling the continuation in that case,  
you can do the equivalent work directly inside the original function.)

Besides the Lua state,  
the continuation function has two other parameters:  
the final status of the call and the context value (@id{ctx}) that  
was passed originally to @Lid{lua\_pcallk}.

Lua does not use this context value;  
it only passes this value from the original function to the  
continuation function.  
For @Lid{lua\_pcallk},  
the status is the same value that would be returned by @Lid{lua\_pcallk},  
except that it is @Lid{LUA\_YIELD} when being executed after a yield  
(instead of @Lid{LUA\_OK}).  
For @Lid{lua\_yieldk} and @Lid{lua\_callk},  
the status is always @Lid{LUA\_YIELD} when Lua calls the continuation.  
(For these two functions,  
Lua will not call the continuation in case of errors,  
because they do not handle errors.)  
Similarly, when using @Lid{lua\_callk},  
you should call the continuation function  
with @Lid{LUA\_OK} as the status.  
(For @Lid{lua\_yieldk}, there is not much point in calling  
directly the continuation function,  
because @Lid{lua\_yieldk} usually does not return.)

Lua treats the continuation function as if it were the original function.  
The continuation function receives the same Lua stack  
from the original function,  
in the same state it would be if the callee function had returned.  
(For instance,  
after a @Lid{lua\_callk} the function and its arguments are  
removed from the stack and replaced by the results from the call.)  
It also has the same upvalues.  
Whatever it returns is handled by Lua as if it were the return  
of the original function.

}

@sect2{ @title{Functions and Types}

Here we list all functions and types from the @N{C API} in  
alphabetical order.

Each function has an indicator like this:

@apii{o,p,x}

The first field, @T{o},  
is how many elements the function pops from the stack.  
The second field, @T{p},  
is how many elements the function pushes onto the stack.  
(Any function always pushes its results after popping its arguments.)  
A field in the form @T{x|y} means the function can push (or pop)  
@T{x} or @T{y} elements,  
depending on the situation;  
an interrogation mark @Char{?} means that

we cannot know how many elements the function pops/pushes by looking only at its arguments.

(For instance, they may depend on what is in the stack.)

The third field, @T{x},

tells whether the function may raise errors:

@Char{-} means the function never raises any error;

@Char{m} means the function may raise only out-of-memory errors;

@Char{v} means the function may raise the errors explained in the text;

@Char{e} means the function can run arbitrary Lua code,

either directly or through metamethods,

and therefore may raise any errors.

```
@APIEntry{int lua_absindex (lua_State *L, int idx);|
```

```
@apii{0,0,-}
```

Converts the @x{acceptable index} @id{idx}

into an equivalent @x{absolute index}

(that is, one that does not depend on the stack size).

```
}
```

```
@APIEntry{
```

```
typedef void * (*lua_Alloc) (void *ud,
```

```
void *ptr,
```

```
size_t osize,
```

```
size_t nsize);|
```

The type of the @x{memory-allocation function} used by Lua states.

The allocator function must provide a

functionality similar to @id{realloc},

but not exactly the same.

Its arguments are

@id{ud}, an opaque pointer passed to @Lid{lua\_newstate};

@id{ptr}, a pointer to the block being allocated/reallocated/freed;

@id{osize}, the original size of the block or some code about what is being allocated;

and @id{nsize}, the new size of the block.

When @id{ptr} is not @id{NULL},

@id{osize} is the size of the block pointed by @id{ptr},

that is, the size given when it was allocated or reallocated.

When @id{ptr} is @id{NULL},

@id{osize} encodes the kind of object that Lua is allocating.

@id{osize} is any of

@Lid{LUA\_TSTRING}, @Lid{LUA\_TTABLE}, @Lid{LUA\_TFUNCTION},

@Lid{LUA\_TUSERDATA}, or @Lid{LUA\_TTHREAD} when (and only when) Lua is creating a new object of that type.  
When @id{osize} is some other value,  
Lua is allocating memory for something else.

Lua assumes the following behavior from the allocator function:

When @id{nsize} is zero,  
the allocator must behave like @id{free}  
and then return @id{NULL}.

When @id{nsize} is not zero,  
the allocator must behave like @id{realloc}.  
In particular, the allocator returns @id{NULL}  
if and only if it cannot fulfill the request.

Here is a simple implementation for the @x{allocator function}.  
It is used in the auxiliary library by @Lid{luaL\_newstate}.

```
@verbatim{
static void *l_alloc (void *ud, void *ptr, size_t osize,
                    size_t nsize) {
    (void)ud; (void)osize; /* not used */
    if (nsize == 0) {
        free(ptr);
        return NULL;
    }
    else
        return realloc(ptr, nsize);
}
}
```

Note that @N{Standard C} ensures  
that @T{free(NULL)} has no effect and that  
@T{realloc(NULL,size)} is equivalent to @T{malloc(size)}.

```
}
```

```
@APIEntry{void lua_arith (lua_State *L, int op);|
@apii{2|1,1,e}
```

Performs an arithmetic or bitwise operation over the two values  
(or one, in the case of negations)  
at the top of the stack,  
with the value on the top being the second operand,  
pops these values, and pushes the result of the operation.  
The function follows the semantics of the corresponding Lua operator  
(that is, it may call metamethods).

The value of @id{op} must be one of the following constants:

```

@description{

@item{ @defid{LUA_OPADD}| performs addition (@T{+})}
@item{ @defid{LUA_OPSUB}| performs subtraction (@T{-})}
@item{ @defid{LUA_OPMUL}| performs multiplication (@T{*})}
@item{ @defid{LUA_OPDIV}| performs float division (@T{/})}
@item{ @defid{LUA_OPIDIV}| performs floor division (@T{//})}
@item{ @defid{LUA_OPMOD}| performs modulo (@T{%})}
@item{ @defid{LUA_OPPOW}| performs exponentiation (@T{^})}
@item{ @defid{LUA_OPUNM}| performs mathematical negation (unary @T{-})}
@item{ @defid{LUA_OPBNOT}| performs bitwise NOT (@T{~})}
@item{ @defid{LUA_OPBAND}| performs bitwise AND (@T{&})}
@item{ @defid{LUA_OPBOR}| performs bitwise OR (@T{|})}
@item{ @defid{LUA_OPBXOR}| performs bitwise exclusive OR (@T{~})}
@item{ @defid{LUA_OPSHL}| performs left shift (@T{<<})}
@item{ @defid{LUA_OPSHR}| performs right shift (@T{>>})}

}

}

```

```

@APIEntry{lua_CFunction lua_atpanic (lua_State *L, lua_CFunction panicf);|
@apii{0,0,-}

```

Sets a new panic function and returns the old one @see{C-error}.

```

}

```

```

@APIEntry{void lua_call (lua_State *L, int nargs, int nresults);|
@apii{nargs+1,nresults,e}

```

Calls a function.

Like regular Lua calls,

@id{lua\_call} respects the @idx{\_\_call} metamethod.

So, here the word @Q{function}

means any callable value.

To do a call you must use the following protocol:

first, the function to be called is pushed onto the stack;

then, the arguments to the call are pushed

in direct order;

that is, the first argument is pushed first.

Finally you call @Lid{lua\_call};

@id{nargs} is the number of arguments that you pushed onto the stack.

When the function returns,

all arguments and the function value are popped

and the call results are pushed onto the stack.

The number of results is adjusted to @id{nresults},

unless @id{nresults} is @defid{LUA\_MULTRET}.  
 In this case, all results from the function are pushed;  
 Lua takes care that the returned values fit into the stack space,  
 but it does not ensure any extra space in the stack.  
 The function results are pushed onto the stack in direct order  
 (the first result is pushed first),  
 so that after the call the last result is on the top of the stack.

Any error while calling and running the function is propagated upwards  
 (with a @id{longjmp}).

The following example shows how the host program can do the  
 equivalent to this Lua code:

```
@verbatim{
a = f("how", t.x, 14)
}
```

Here it is @N{in C}:

```
@verbatim{
lua_getglobal(L, "f");           /* function to be called */
lua_pushliteral(L, "how");       /* 1st argument */
lua_getglobal(L, "t");           /* table to be indexed */
lua_getfield(L, -1, "x");        /* push result of t.x (2nd arg) */
lua_remove(L, -2);              /* remove 't' from the stack */
lua_pushinteger(L, 14);          /* 3rd argument */
lua_call(L, 3, 1);              /* call 'f' with 3 arguments and 1 result */
lua_setglobal(L, "a");           /* set global 'a' */
}
```

Note that the code above is @emph{balanced}:  
 at its end, the stack is back to its original configuration.  
 This is considered good programming practice.

```
}
```

```
@APIEntry{
void lua_callk (lua_State *L,
               int nargs,
               int nresults,
               lua_KContext ctx,
               lua_KFunction k);|
@apii{nargs + 1,nresults,e}
```

This function behaves exactly like @Lid{lua\_call},  
 but allows the called function to yield @see{continuations}.

```
}
```

```
@APIEntry{typedef int (*lua_CFunction) (lua_State *L);|
```

Type for @N{C functions}.

In order to communicate properly with Lua,  
a @N{C function} must use the following protocol,  
which defines the way parameters and results are passed:  
a @N{C function} receives its arguments from Lua in its stack  
in direct order (the first argument is pushed first).

So, when the function starts,

@T{lua\_gettop(L)} returns the number of arguments received by the function.

The first argument (if any) is at index 1

and its last argument is at index @T{lua\_gettop(L)}.

To return values to Lua, a @N{C function} just pushes them onto the stack,  
in direct order (the first result is pushed first),  
and returns in C the number of results.

Any other value in the stack below the results will be properly  
discarded by Lua.

Like a Lua function, a @N{C function} called by Lua can also return  
many results.

As an example, the following function receives a variable number  
of numeric arguments and returns their average and their sum:

```
@verbatim{
static int foo (lua_State *L) {
    int n = lua_gettop(L); /* number of arguments */
    lua_Number sum = 0.0;
    int i;
    for (i = 1; i <= n; i++) {
        if (!lua_isnumber(L, i)) {
            lua_pushliteral(L, "incorrect argument");
            lua_error(L);
        }
        sum += lua_tonumber(L, i);
    }
    lua_pushnumber(L, sum/n); /* first result */
    lua_pushnumber(L, sum); /* second result */
    return 2; /* number of results */
}
}
```

```
@APIEntry{int lua_checkstack (lua_State *L, int n);|
@api{0,0,-}
```

Ensures that the stack has space for at least @id{n} extra elements,

that is, that you can safely push up to @id{n} values into it.  
It returns false if it cannot fulfill the request,  
either because it would cause the stack  
to be greater than a fixed maximum size  
(typically at least several thousand elements) or  
because it cannot allocate memory for the extra space.  
This function never shrinks the stack;  
if the stack already has space for the extra elements,  
it is left unchanged.

}

```
@APIEntry{void lua_close (lua_State *L);|
@apii{0,0,-}}
```

Close all active to-be-closed variables in the main thread,  
release all objects in the given Lua state  
(calling the corresponding garbage-collection metamethods, if any),  
and frees all dynamic memory used by this state.

On several platforms, you may not need to call this function,  
because all resources are naturally released when the host program ends.  
On the other hand, long-running programs that create multiple states,  
such as daemons or web servers,  
will probably need to close states as soon as they are not needed.

}

```
@APIEntry{void lua_closeslot (lua_State *L, int index);|
@apii{0,0,e}}
```

Close the to-be-closed slot at the given index and set its value to @nil.  
The index must be the last index previously marked to be closed  
@see{lua\_toclose} that is still active (that is, not closed yet).

A @idx{\_\_close} metamethod cannot yield  
when called through this function.

(Exceptionally, this function was introduced in release 5.4.3.  
It is not present in previous 5.4 releases.)

}

```
@APIEntry{int lua_compare (lua_State *L, int index1, int index2, int op);|
@apii{0,0,e}}
```

Compares two Lua values.  
Returns 1 if the value at index @id{index1} satisfies @id{op}



when compared with the value at index @id{index2},  
following the semantics of the corresponding Lua operator  
(that is, it may call metamethods).  
Otherwise @N{returns 0}.  
Also @N{returns 0} if any of the indices is not valid.

The value of @id{op} must be one of the following constants:

@description{

@item{@defid{LUA\_OPEQ}| compares for equality (@T{==})}  
@item{@defid{LUA\_OPLT}| compares for less than (@T{<})}  
@item{@defid{LUA\_OPLE}| compares for less or equal (@T{<=})}

}

}

@APIEntry{void lua\_concat (lua\_State \*L, int n);|  
@apii{n,1,e}

Concatenates the @id{n} values at the top of the stack,  
pops them, and leaves the result on the top.  
If @N{@T{n} is 1}, the result is the single value on the stack  
(that is, the function does nothing);  
if @id{n} is 0, the result is the empty string.  
Concatenation is performed following the usual semantics of Lua  
@see{concat}.

}

@APIEntry{void lua\_copy (lua\_State \*L, int fromidx, int toidx);|  
@apii{0,0,-}

Copies the element at index @id{fromidx}  
into the valid index @id{toidx},  
replacing the value at that position.  
Values at other positions are not affected.

}

@APIEntry{void lua\_createtable (lua\_State \*L, int narr, int nrec);|  
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.  
Parameter @id{narr} is a hint for how many elements the table  
will have as a sequence;  
parameter @id{nrec} is a hint for how many other elements  
the table will have.

Lua may use these hints to preallocate memory for the new table.  
This preallocation may help performance when you know in advance  
how many elements the table will have.  
Otherwise you can use the function @Lid{lua\_newtable}.

}

```
@APIEntry{int lua_dump (lua_State *L,  
    lua_Writer writer,  
    void *data,  
    int strip);|  
@apii{0,0,-}
```

Dumps a function as a binary chunk.  
Receives a Lua function on the top of the stack  
and produces a binary chunk that,  
if loaded again,  
results in a function equivalent to the one dumped.  
As it produces parts of the chunk,  
@Lid{lua\_dump} calls function @id{writer} @seeC{lua\_Writer}  
with the given @id{data}  
to write them.

If @id{strip} is true,  
the binary representation may not include all debug information  
about the function,  
to save space.

The value returned is the error code returned by the last  
call to the writer;  
@N{0 means} no errors.

This function does not pop the Lua function from the stack.

}

```
@APIEntry{int lua_error (lua_State *L);|  
@apii{1,0,v}
```

Raises a Lua error,  
using the value on the top of the stack as the error object.  
This function does a long jump,  
and therefore never returns  
@seeC{luaL\_error}.

}

```
@APIEntry{int lua_gc (lua_State *L, int what, ...);|
```

@api{0,0,-}

Controls the garbage collector.

This function performs several tasks,  
according to the value of the parameter @id{what}.

For options that need extra arguments,  
they are listed after the option.

@description{

@item{ @id{LUA\_GCCOLLECT}|

Performs a full garbage-collection cycle.

}

@item{ @id{LUA\_GCSTOP}|

Stops the garbage collector.

}

@item{ @id{LUA\_GCRESTART}|

Restarts the garbage collector.

}

@item{ @id{LUA\_GCCOUNT}|

Returns the current amount of memory (in Kbytes) in use by Lua.

}

@item{ @id{LUA\_GCCOUNTB}|

Returns the remainder of dividing the current amount of bytes of  
memory in use by Lua by 1024.

}

@item{ @id{LUA\_GCSTEP} @T{(int stepsize)}|

Performs an incremental step of garbage collection,  
corresponding to the allocation of @id{stepsize} Kbytes.

}

@item{ @id{LUA\_GCISRUNNING}|

Returns a boolean that tells whether the collector is running  
(i.e., not stopped).

}

@item{ @id{LUA\_GCINC} (int pause, int stepmul, stepsize)|

Changes the collector to incremental mode  
with the given parameters @see{incmode}.

Returns the previous mode (@id{LUA\_GCGEN} or @id{LUA\_GCINC}).

}

@item{ @id{LUA\_GCGEN} (int minormul, int majormul)|

Changes the collector to generational mode  
with the given parameters @see{genmode}.

Returns the previous mode (@id{LUA\_GCGEN} or @id{LUA\_GCINC}).

}

}

For more details about these options,  
see @Lid{collectgarbage}.

This function should not be called by a finalizer.

}

@APIEntry{lua\_Alloc lua\_getallocf (lua\_State \*L, void \*\*ud);|  
@apii{0,0,-}}

Returns the @x{memory-allocation function} of a given state.

If @id{ud} is not @id{NULL}, Lua stores in @T{\*ud} the  
opaque pointer given when the memory-allocator function was set.

}

@APIEntry{int lua\_getfield (lua\_State \*L, int index, const char \*k);|  
@apii{0,1,e}}

Pushes onto the stack the value @T{t[k]},  
where @id{t} is the value at the given index.

As in Lua, this function may trigger a metamethod  
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{void \*lua\_getextraspace (lua\_State \*L);|  
@apii{0,0,-}}

Returns a pointer to a raw memory area associated with the  
given Lua state.

The application can use this area for any purpose;  
Lua does not use it for anything.

Each new thread has this area initialized with a copy  
of the area of the @x{main thread}.

By default, this area has the size of a pointer to void,  
but you can recompile Lua with a different size for this area.  
(See @id{LUA\_EXTRASPACE} in @id{luaconf.h}.)

```
}
```

```
@APIEntry{int lua_getglobal (lua_State *L, const char *name);|  
@apii{0,1,e}
```

Pushes onto the stack the value of the global @id{name}.  
Returns the type of that value.

```
}
```

```
@APIEntry{int lua_geti (lua_State *L, int index, lua_Integer i);|  
@apii{0,1,e}
```

Pushes onto the stack the value @T{t[i]},  
where @id{t} is the value at the given index.  
As in Lua, this function may trigger a metamethod  
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

```
}
```

```
@APIEntry{int lua_getmetatable (lua_State *L, int index);|  
@apii{0,0|1,-}
```

If the value at the given index has a metatable,  
the function pushes that metatable onto the stack and @N{returns 1}.  
Otherwise,  
the function @N{returns 0} and pushes nothing on the stack.

```
}
```

```
@APIEntry{int lua_gettable (lua_State *L, int index);|  
@apii{1,1,e}
```

Pushes onto the stack the value @T{t[k]},  
where @id{t} is the value at the given index  
and @id{k} is the value on the top of the stack.

This function pops the key from the stack,  
pushing the resulting value in its place.  
As in Lua, this function may trigger a metamethod  
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

```
}
```

```
@APIEntry{int lua_gettop (lua_State *L);|
@apii{0,0,-}}
```

Returns the index of the top element in the stack.  
Because indices start @N{at 1},  
this result is equal to the number of elements in the stack;  
in particular, @N{0 means} an empty stack.

```
}
```

```
@APIEntry{int lua_getiuservalue (lua_State *L, int index, int n);|
@apii{0,1,-}}
```

Pushes onto the stack the @id{n}-th user value associated with the  
full userdata at the given index and  
returns the type of the pushed value.

If the userdata does not have that value,  
pushes @nil and returns @Lid{LUA\_TNONE}.

```
}
```

```
@APIEntry{void lua_insert (lua_State *L, int index);|
@apii{1,1,-}}
```

Moves the top element into the given valid index,  
shifting up the elements above this index to open space.  
This function cannot be called with a pseudo-index,  
because a pseudo-index is not an actual stack position.

```
}
```

```
@APIEntry{typedef @ldots lua_Integer;|
```

The type of integers in Lua.

By default this type is @id{long long},  
(usually a 64-bit two-complement integer),  
but that can be changed to @id{long} or @id{int}  
(usually a 32-bit two-complement integer).  
(See @id{LUA\_INT\_TYPE} in @id{luaconf.h}.)

Lua also defines the constants  
@defid{LUA\_MININTEGER} and @defid{LUA\_MAXINTEGER},  
with the minimum and the maximum values that fit in this type.

```
}
```

```
@APIEntry{int lua_isboolean (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a boolean,  
and @N{0 otherwise}.

```
}
```

```
@APIEntry{int lua_iscfunction (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a @N{C function},  
and @N{0 otherwise}.

```
}
```

```
@APIEntry{int lua_isfunction (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a function  
(either C or Lua), and @N{0 otherwise}.

```
}
```

```
@APIEntry{int lua_isinteger (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is an integer  
(that is, the value is a number and is represented as an integer),  
and @N{0 otherwise}.

```
}
```

```
@APIEntry{int lua_isthread (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a thread,  
and @N{0 otherwise}.

```
}
```

```
@APIEntry{int lua_isnil (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is @nil,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_ismeta (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the given index is not valid,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_istable (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the given index is not valid  
or if the value at this index is @nil,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_isnumber (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a number  
or a string convertible to a number,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_isstring (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a string  
or a number (which is always convertible to a string),  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_isthread (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a thread,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}}
```



Returns 1 if the value at the given index is a thread,  
and @N{0 otherwise}.

}

```
@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns 1 if the value at the given index is a userdata  
(either full or light), and @N{0 otherwise}.

}

```
@APIEntry{int lua_isyieldable (lua_State *L);|
@apii{0,0,-}}
```

Returns 1 if the given coroutine can yield,  
and @N{0 otherwise}.

}

```
@APIEntry{typedef @ldots lua_KContext;|
```

The type for continuation-function contexts.

It must be a numeric type.

This type is defined as @id{intptr\_t}

when @id{intptr\_t} is available,

so that it can store pointers too.

Otherwise, it is defined as @id{ptrdiff\_t}.

}

```
@APIEntry{
typedef int (*lua_KFunction) (lua_State *L, int status, lua_KContext ctx);|
```

Type for continuation functions @see{continuations}.

}

```
@APIEntry{void lua_len (lua_State *L, int index);|
@apii{0,1,e}}
```

Returns the length of the value at the given index.

It is equivalent to the @Char{#} operator in Lua @see{len-op} and

may trigger a metamethod for the @Q{length} event @see{metatable}.

The result is pushed on the stack.

}

```

@APIEntry{
int lua_load (lua_State *L,
             lua_Reader reader,
             void *data,
             const char *chunkname,
             const char *mode);|
@apii{0,1,-}

```

Loads a Lua chunk without running it.

If there are no errors,

@id{lua\_load} pushes the compiled chunk as a Lua function on top of the stack.

Otherwise, it pushes an error message.

The @id{lua\_load} function uses a user-supplied @id{reader} function to read the chunk @seeC{lua\_Reader}.

The @id{data} argument is an opaque value passed to the reader function.

The @id{chunkname} argument gives a name to the chunk, which is used for error messages and in debug information @see{debugI}.

@id{lua\_load} automatically detects whether the chunk is text or binary and loads it accordingly (see program @idx{luac}).

The string @id{mode} works as in function @Lid{load}, with the addition that

a @id{NULL} value is equivalent to the string @St{bt}.

@id{lua\_load} uses the stack internally, so the reader function must always leave the stack unmodified when returning.

@id{lua\_load} can return

@Lid{LUA\_OK}, @Lid{LUA\_ERRSYNTAX}, or @Lid{LUA\_ERRMEM}.

The function may also return other values corresponding to errors raised by the read function @see{statuscodes}.

If the resulting function has upvalues,

its first upvalue is set to the value of the @x{global environment} stored at index @id{LUA\_RIDX\_GLOBALS} in the registry @see{registry}.

When loading main chunks,

this upvalue will be the @id{\_ENV} variable @see{globalenv}.

Other upvalues are initialized with @nil.

```

}
```

```

@APIEntry{lua_State *lua_newstate (lua_Alloc f, void *ud);|
@apii{0,0,-}

```

Creates a new independent state and returns its main thread.

Returns @id{NULL} if it cannot create the state  
(due to lack of memory).

The argument @id{f} is the @x{allocator function};

Lua will do all memory allocation for this state  
through this function @seeF{lua\_Alloc}.

The second argument, @id{ud}, is an opaque pointer that Lua  
passes to the allocator in every call.

}

```
@APIEntry{void lua_newtable (lua_State *L);|
@apii{0,1,m}}
```

Creates a new empty table and pushes it onto the stack.

It is equivalent to @T{lua\_createtable(L, 0, 0)}.

}

```
@APIEntry{lua_State *lua_newthread (lua_State *L);|
@apii{0,1,m}}
```

Creates a new thread, pushes it on the stack,  
and returns a pointer to a @Lid{lua\_State} that represents this new thread.  
The new thread returned by this function shares with the original thread  
its global environment,  
but has an independent execution stack.

Threads are subject to garbage collection,  
like any Lua object.

}

```
@APIEntry{void *lua_newuserdatav (lua_State *L, size_t size, int nuvalue);|
@apii{0,1,m}}
```

This function creates and pushes on the stack a new full userdata,  
with @id{nuvalue} associated Lua values, called @id{user values},  
plus an associated block of raw memory with @id{size} bytes.

(The user values can be set and read with the functions  
@Lid{lua\_setiuservalue} and @Lid{lua\_getiuservalue}.)

The function returns the address of the block of memory.

Lua ensures that this address is valid as long as  
the corresponding userdata is alive @see{GC}.

Moreover, if the userdata is marked for finalization @see{finalizers},  
its address is valid at least until the call to its finalizer.

```
}
```

```
@APIEntry{int lua_next (lua_State *L, int index);|  
@apii{1,2|0,v}
```

Pops a key from the stack,  
and pushes a key@En{ }value pair from the table at the given index,  
the @Q{next} pair after the given key.  
If there are no more elements in the table,  
then @Lid{lua\_next} returns 0 and pushes nothing.

A typical table traversal looks like this:

```
@verbatim{  
/* table is in the stack at index 't' */  
lua_pushnil(L); /* first key */  
while (lua_next(L, t) != 0) {  
/* uses 'key' (at index -2) and 'value' (at index -1) */  
printf("%s - %s\n",  
lua_typename(L, lua_type(L, -2)),  
lua_typename(L, lua_type(L, -1)));  
/* removes 'value'; keeps 'key' for next iteration */  
lua_pop(L, 1);  
}  
}
```

While traversing a table,  
avoid calling @Lid{lua\_tolstring} directly on a key,  
unless you know that the key is actually a string.  
Recall that @Lid{lua\_tolstring} may change  
the value at the given index;  
this confuses the next call to @Lid{lua\_next}.

This function may raise an error if the given key  
is neither @nil nor present in the table.  
See function @Lid{next} for the caveats of modifying  
the table during its traversal.

```
}
```

```
@APIEntry{typedef @ldots lua_Number;|
```

The type of floats in Lua.

By default this type is double,  
but that can be changed to a single float or a long double.  
(See @id{LUA\_FLOAT\_TYPE} in @id{luaconf.h}.)

}

```
@APIEntry{int lua_numbertointeger (lua_Number n, lua_Integer *p);|
```

Tries to convert a Lua float to a Lua integer;  
the float @id{n} must have an integral value.  
If that value is within the range of Lua integers,  
it is converted to an integer and assigned to @T{\*p}.  
The macro results in a boolean indicating whether the  
conversion was successful.  
(Note that this range test can be tricky to do  
correctly without this macro, due to rounding.)

This macro may evaluate its arguments more than once.

}

```
@APIEntry{int lua_pcall (lua_State *L, int nargs, int nresults, int msgh);|  
@apii{nargs + 1,nresults|1,-}
```

Calls a function (or a callable object) in protected mode.

Both @id{nargs} and @id{nresults} have the same meaning as  
in @Lid{lua\_call}.

If there are no errors during the call,  
@Lid{lua\_pcall} behaves exactly like @Lid{lua\_call}.  
However, if there is any error,  
@Lid{lua\_pcall} catches it,  
pushes a single value on the stack (the error object),  
and returns an error code.

Like @Lid{lua\_call},  
@Lid{lua\_pcall} always removes the function  
and its arguments from the stack.

If @id{msgh} is 0,  
then the error object returned on the stack  
is exactly the original error object.  
Otherwise, @id{msgh} is the stack index of a  
@emph{message handler}.  
(This index cannot be a pseudo-index.)

In case of runtime errors,  
this handler will be called with the error object  
and its return value will be the object  
returned on the stack by @Lid{lua\_pcall}.

Typically, the message handler is used to add more debug  
information to the error object, such as a stack traceback.  
Such information cannot be gathered after the return of @Lid{lua\_pcall},

since by then the stack has unwound.

The @Lid{lua\_pcall} function returns one of the following status codes:

@Lid{LUA\_OK}, @Lid{LUA\_ERRRUN}, @Lid{LUA\_ERRMEM}, or @Lid{LUA\_ERRERR}.

}

```
@APIEntry{
int lua_pcallk (lua_State *L,
               int nargs,
               int nresults,
               int msgch,
               lua_KContext ctx,
               lua_KFunction k);|
@apii{nargs + 1,nresults|1,-}
```

This function behaves exactly like @Lid{lua\_pcall},  
except that it allows the called function to yield @see{continuations}.

}

```
@APIEntry{void lua_pop (lua_State *L, int n);|
@apii{n,0,e}
```

Pops @id{n} elements from the stack.  
It is implemented as a macro over @Lid{lua\_settop}.

}

```
@APIEntry{void lua_pushboolean (lua_State *L, int b);|
@apii{0,1,-}
```

Pushes a boolean value with value @id{b} onto the stack.

}

```
@APIEntry{void lua_pushcclosure (lua_State *L, lua_CFunction fn, int n);|
@apii{n,1,m}
```

Pushes a new @N{C closure} onto the stack.  
This function receives a pointer to a @N{C function}  
and pushes onto the stack a Lua value of type @id{function} that,  
when called, invokes the corresponding @N{C function}.  
The parameter @id{n} tells how many upvalues this function will have  
@see{c-closure}.

Any function to be callable by Lua must  
follow the correct protocol to receive its parameters

and return its results @seeC{lua\_CFunction}.

When a @N{C function} is created, it is possible to associate some values with it, the so called upvalues; these upvalues are then accessible to the function whenever it is called. This association is called a @x{ @N{C closure}} @see{c-closure}. To create a @N{C closure}, first the initial values for its upvalues must be pushed onto the stack. (When there are multiple upvalues, the first value is pushed first.) Then @Lid{lua\_pushcclosure} is called to create and push the @N{C function} onto the stack, with the argument @id{n} telling how many values will be associated with the function. @Lid{lua\_pushcclosure} also pops these values from the stack.

The maximum value for @id{n} is 255.

When @id{n} is zero, this function creates a @def{light @N{C function}}, which is just a pointer to the @N{C function}. In that case, it never raises a memory error.

}

```
@APIEntry{void lua_pushfunction (lua_State *L, lua_CFunction f);|
@apii{0,1,-}
```

Pushes a @N{C function} onto the stack. This function is equivalent to @Lid{lua\_pushcclosure} with no upvalues.

}

```
@APIEntry{const char *lua_pushfstring (lua_State *L, const char *fmt, ...);|
@apii{0,1,v}
```

Pushes onto the stack a formatted string and returns a pointer to this string @see{constchar}.

It is similar to the @ANSI{sprintf}, but has two important differences.

First,

you do not have to allocate space for the result; the result is a Lua string and Lua takes care of memory allocation (and deallocation, through garbage collection).

Second,

the conversion specifiers are quite restricted.

There are no flags, widths, or precisions.

The conversion specifiers can only be

@Char{%%} (inserts the character @Char{%}),  
@Char{%s} (inserts a zero-terminated string, with no size restrictions),  
@Char{%f} (inserts a @Lid{lua\_Number}),  
@Char{%I} (inserts a @Lid{lua\_Integer}),  
@Char{%p} (inserts a pointer),  
@Char{%d} (inserts an @T{int}),  
@Char{%c} (inserts an @T{int} as a one-byte character), and  
@Char{%U} (inserts a @T{long int} as a @x{UTF-8} byte sequence).

This function may raise errors due to memory overflow  
or an invalid conversion specifier.

}

@APIEntry{void lua\_pushglobaltable (lua\_State \*L);  
@apii{0,1,-}}

Pushes the @x{global environment} onto the stack.

}

@APIEntry{void lua\_pushinteger (lua\_State \*L, lua\_Integer n);  
@apii{0,1,-}}

Pushes an integer with value @id{n} onto the stack.

}

@APIEntry{void lua\_pushlightuserdata (lua\_State \*L, void \*p);  
@apii{0,1,-}}

Pushes a light userdata onto the stack.

Userdata represent @N{C values} in Lua.

A @def{light userdata} represents a pointer, a @T{void\*}.

It is a value (like a number):

you do not create it, it has no individual metatable,

and it is not collected (as it was never created).

A light userdata is equal to @Q{any}

light userdata with the same @N{C address}.

}

@APIEntry{const char \*lua\_pushliteral (lua\_State \*L, const char \*s);  
@apii{0,1,m}}

This macro is equivalent to @Lid{lua\_pushstring},  
but should be used only when @id{s} is a literal string.



(Lua may optimize this case.)

}

```
@APIEntry{const char *lua_pushlstring (lua_State *L, const char *s, size_t len);|
@apii{0,1,m}
```

Pushes the string pointed to by @id{s} with size @id{len} onto the stack.

Lua will make or reuse an internal copy of the given string, so the memory at @id{s} can be freed or reused immediately after the function returns.

The string can contain any binary data, including @x{embedded zeros}.

Returns a pointer to the internal copy of the string @see{constchar}.

}

```
@APIEntry{void lua_pushnil (lua_State *L);|
@apii{0,1,-}
```

Pushes a nil value onto the stack.

}

```
@APIEntry{void lua_pushnumber (lua_State *L, lua_Number n);|
@apii{0,1,-}
```

Pushes a float with value @id{n} onto the stack.

}

```
@APIEntry{const char *lua_pushstring (lua_State *L, const char *s);|
@apii{0,1,m}
```

Pushes the zero-terminated string pointed to by @id{s} onto the stack.

Lua will make or reuse an internal copy of the given string, so the memory at @id{s} can be freed or reused immediately after the function returns.

Returns a pointer to the internal copy of the string @see{constchar}.

If @id{s} is @id{NULL}, pushes @nil and returns @id{NULL}.

}

```
@APIEntry{int lua_pushthread (lua_State *L);|
@apii{0,1,-}}
```

Pushes the thread represented by @id{L} onto the stack.  
Returns 1 if this thread is the @x{main thread} of its state.

```
}
```

```
@APIEntry{void lua_pushvalue (lua_State *L, int index);|
@apii{0,1,-}}
```

Pushes a copy of the element at the given index  
onto the stack.

```
}
```

```
@APIEntry{
const char *lua_pushvfstring (lua_State *L,
                             const char *fmt,
                             va_list argp);|
@apii{0,1,v}}
```

Equivalent to @Lid{lua\_pushfstring}, except that it receives a @id{va\_list}  
instead of a variable number of arguments.

```
}
```

```
@APIEntry{int lua_rawequal (lua_State *L, int index1, int index2);|
@apii{0,0,-}}
```

Returns 1 if the two values in indices @id{index1} and  
@id{index2} are primitively equal  
(that is, equal without calling the @idx{\_\_eq} metamethod).  
Otherwise @N{returns 0}.  
Also @N{returns 0} if any of the indices are not valid.

```
}
```

```
@APIEntry{int lua_rawget (lua_State *L, int index);|
@apii{1,1,-}}
```

Similar to @Lid{lua\_gettable}, but does a raw access  
(i.e., without metamethods).

```
}
```

```
@APIEntry{int lua_rawgeti (lua_State *L, int index, lua_Integer n);|
@apii{0,1,-}}
```

Pushes onto the stack the value `@T{t[n]}`,  
where `@id{t}` is the table at the given index.  
The access is raw,  
that is, it does not use the `@idx{__index}` metavalue.

Returns the type of the pushed value.

}

```
@APIEntry{int lua_rawgetp (lua_State *L, int index, const void *p);|
@apii{0,1,-}}
```

Pushes onto the stack the value `@T{t[k]}`,  
where `@id{t}` is the table at the given index and  
`@id{k}` is the pointer `@id{p}` represented as a light userdata.  
The access is raw;  
that is, it does not use the `@idx{__index}` metavalue.

Returns the type of the pushed value.

}

```
@APIEntry{lua_Unsigned lua_rawlen (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns the raw `@Q{length}` of the value at the given index:  
for strings, this is the string length;  
for tables, this is the result of the length operator (`@Char{#}`)  
with no metamethods;  
for userdata, this is the size of the block of memory allocated  
for the userdata.  
For other values, this call `@N{returns 0}`.

}

```
@APIEntry{void lua_rawset (lua_State *L, int index);|
@apii{2,0,m}}
```

Similar to `@Lid{lua_settable}`, but does a raw assignment  
(i.e., without metamethods).

}

```
@APIEntry{void lua_rawseti (lua_State *L, int index, lua_Integer i);|
@apii{1,0,m}}
```

Does the equivalent of `@T{t[i] = v}`,

where @id{t} is the table at the given index  
and @id{v} is the value on the top of the stack.

This function pops the value from the stack.  
The assignment is raw,  
that is, it does not use the @idx{\_\_newindex} metavalue.

}

```
@APIEntry{void lua_rawsetp (lua_State *L, int index, const void *p);|
@apii{1,0,m}
```

Does the equivalent of @T{t[p] = v},  
where @id{t} is the table at the given index,  
@id{p} is encoded as a light userdata,  
and @id{v} is the value on the top of the stack.

This function pops the value from the stack.  
The assignment is raw,  
that is, it does not use the @idx{\_\_newindex} metavalue.

}

```
@APIEntry{
typedef const char * (*lua_Reader) (lua_State *L,
    void *data,
    size_t *size);|
```

The reader function used by @Lid{lua\_load}.  
Every time @Lid{lua\_load} needs another piece of the chunk,  
it calls the reader,  
passing along its @id{data} parameter.  
The reader must return a pointer to a block of memory  
with a new piece of the chunk  
and set @id{size} to the block size.  
The block must exist until the reader function is called again.  
To signal the end of the chunk,  
the reader must return @id{NULL} or set @id{size} to zero.  
The reader function may return pieces of any size greater than zero.

}

```
@APIEntry{void lua_register (lua_State *L, const char *name, lua_CFunction f);|
@apii{0,0,e}
```

Sets the @N{C function} @id{f} as the new value of global @id{name}.  
It is defined as a macro:  
@verbatim{

```
#define lua_register(L,n,f) \
    (lua_pushcfunction(L, f), lua_setglobal(L, n))
}
```

```
@APIEntry{void lua_remove (lua_State *L, int index);|
@api{1,0,-}}
```

Removes the element at the given valid index, shifting down the elements above this index to fill the gap. This function cannot be called with a pseudo-index, because a pseudo-index is not an actual stack position.

```
}
```

```
@APIEntry{void lua_replace (lua_State *L, int index);|
@api{1,0,-}}
```

Moves the top element into the given valid index without shifting any element (therefore replacing the value at that given index), and then pops the top element.

```
}
```

```
@APIEntry{int lua_resetthread (lua_State *L);|
@api{0,?,-}}
```

Resets a thread, cleaning its call stack and closing all pending to-be-closed variables.

Returns a status code:

@Lid{LUA\_OK} for no errors in the thread (either the original error that stopped the thread or errors in closing methods), or an error status otherwise.

In case of error,

leaves the error object on the top of the stack.

```
}
```

```
@APIEntry{int lua_resume (lua_State *L, lua_State *from, int nargs,
                          int *nresults);|
@api{?,?,-}}
```

Starts and resumes a coroutine in the given thread @id{L}.

To start a coroutine,

you push the main function plus any arguments onto the empty stack of the thread. then you call `@Lid{lua_resume}`, with `@id{nargs}` being the number of arguments. This call returns when the coroutine suspends or finishes its execution. When it returns, `@id{*nresults}` is updated and the top of the stack contains the `@id{*nresults}` values passed to `@Lid{lua_yield}` or returned by the body function. `@Lid{lua_resume}` returns `@Lid{LUA_YIELD}` if the coroutine yields, `@Lid{LUA_OK}` if the coroutine finishes its execution without errors, or an error code in case of errors @see{statuscodes}. In case of errors, the error object is on the top of the stack.

To resume a coroutine, you remove the `@id{*nresults}` yielded values from its stack, push the values to be passed as results from `@id{yield}`, and then call `@Lid{lua_resume}`.

The parameter `@id{from}` represents the coroutine that is resuming `@id{L}`. If there is no such coroutine, this parameter can be `@id{NULL}`.

}

```
@APIEntry{void lua_rotate (lua_State *L, int idx, int n);
@apii{0,0,-}}
```

Rotates the stack elements between the valid index `@id{idx}` and the top of the stack.

The elements are rotated `@id{n}` positions in the direction of the top, for a positive `@id{n}`,

or `@T{-n}` positions in the direction of the bottom,

for a negative `@id{n}`.

The absolute value of `@id{n}` must not be greater than the size of the slice being rotated.

This function cannot be called with a pseudo-index, because a pseudo-index is not an actual stack position.

}

```
@APIEntry{void lua_setallocf (lua_State *L, lua_Alloc f, void *ud);
@apii{0,0,-}}
```

Changes the @x{allocator function} of a given state to @id{f} with user data @id{ud}.

}

```
@APIEntry{void lua_setfield (lua_State *L, int index, const char *k);|
@apii{1,0,e}
```

Does the equivalent to @T{t[k] = v}, where @id{t} is the value at the given index and @id{v} is the value on the top of the stack.

This function pops the value from the stack. As in Lua, this function may trigger a metamethod for the @Q{newindex} event @see{metatable}.

}

```
@APIEntry{void lua_setglobal (lua_State *L, const char *name);|
@apii{1,0,e}
```

Pops a value from the stack and sets it as the new value of global @id{name}.

}

```
@APIEntry{void lua_seti (lua_State *L, int index, lua_Integer n);|
@apii{1,0,e}
```

Does the equivalent to @T{t[n] = v}, where @id{t} is the value at the given index and @id{v} is the value on the top of the stack.

This function pops the value from the stack. As in Lua, this function may trigger a metamethod for the @Q{newindex} event @see{metatable}.

}

```
@APIEntry{int lua_setiuservalue (lua_State *L, int index, int n);|
@apii{1,0,-}
```

Pops a value from the stack and sets it as the new @id{n}-th user value associated to the full userdata at the given index. Returns 0 if the userdata does not have that value.

}

```
@APIEntry{int lua_setmetatable (lua_State *L, int index);|
@apii{1,0,-}}
```

Pops a table or @nil from the stack and sets that value as the new metatable for the value at the given index. (@nil means no metatable.)

(For historical reasons, this function returns an @id{int}, which now is always 1.)

```
}
```

```
@APIEntry{void lua_settable (lua_State *L, int index);|
@apii{2,0,e}}
```

Does the equivalent to @T{t[k] = v}, where @id{t} is the value at the given index, @id{v} is the value on the top of the stack, and @id{k} is the value just below the top.

This function pops both the key and the value from the stack. As in Lua, this function may trigger a metamethod for the @Q{newindex} event @see{metatable}.

```
}
```

```
@APIEntry{void lua_settop (lua_State *L, int index);|
@apii{?,?,e}}
```

Accepts any index, @N{or 0}, and sets the stack top to this index. If the new top is greater than the old one, then the new elements are filled with @nil. If @id{index} @N{is 0}, then all stack elements are removed.

This function can run arbitrary code when removing an index marked as to-be-closed from the stack.

```
}
```

```
@APIEntry{void lua_setwarnf (lua_State *L, lua_WarnFunction f, void *ud);|
@apii{0,0,-}}
```

Sets the @x{warning function} to be used by Lua to emit warnings @see{lua\_WarnFunction}.

The @id{ud} parameter sets the value @id{ud} passed to the warning function.



```
}
```

```
@APIEntry{typedef struct lua_State lua_State;|
```

An opaque structure that points to a thread and indirectly (through the thread) to the whole state of a Lua interpreter.

The Lua library is fully reentrant:

it has no global variables.

All information about a state is accessible through this structure.

A pointer to this structure must be passed as the first argument to every function in the library, except to @Lid{lua\_newstate}, which creates a Lua state from scratch.

```
}
```

```
@APIEntry{int lua_status (lua_State *L);|
```

```
@apii{0,0,-}
```

Returns the status of the thread @id{L}.

The status can be @Lid{LUA\_OK} for a normal thread,

an error code if the thread finished the execution

of a @Lid{lua\_resume} with an error,

or @Lid{LUA\_YIELD} if the thread is suspended.

You can call functions only in threads with status @Lid{LUA\_OK}.

You can resume threads with status @Lid{LUA\_OK}

(to start a new coroutine) or @Lid{LUA\_YIELD}

(to resume a coroutine).

```
}
```

```
@APIEntry{size_t lua_stringtonumber (lua_State *L, const char *s);|
```

```
@apii{0,1,-}
```

Converts the zero-terminated string @id{s} to a number,

pushes that number into the stack,

and returns the total size of the string,

that is, its length plus one.

The conversion can result in an integer or a float,

according to the lexical conventions of Lua @see{lexical}.

The string may have leading and trailing whitespaces and a sign.

If the string is not a valid numeral,

returns 0 and pushes nothing.

(Note that the result can be used as a boolean,

true if the conversion succeeds.)

}

```
@APIEntry{int lua_toboolean (lua_State *L, int index);|
@apii{0,0,-}
```

Converts the Lua value at the given index to a @N{C boolean} value (@N{0 or 1}).

Like all tests in Lua,

@Lid{lua\_toboolean} returns true for any Lua value different from @false and @nil; otherwise it returns false.

(If you want to accept only actual boolean values, use @Lid{lua\_isboolean} to test the value's type.)

}

```
@APIEntry{lua_CFunction lua_tocfunction (lua_State *L, int index);|
@apii{0,0,-}
```

Converts a value at the given index to a @N{C function}. That value must be a @N{C function}; otherwise, returns @id{NULL}.

}

```
@APIEntry{void lua_toclose (lua_State *L, int index);|
@apii{0,0,m}
```

Marks the given index in the stack as a to-be-closed slot @see{to-be-closed}.

Like a to-be-closed variable in Lua, the value at that slot in the stack will be closed when it goes out of scope.

Here, in the context of a C function, to go out of scope means that the running function returns to Lua, or there is an error, or the slot is removed from the stack through @Lid{lua\_settop} or @Lid{lua\_pop}, or there is a call to @Lid{lua\_closeslot}.

A slot marked as to-be-closed should not be removed from the stack by any other function in the API except @Lid{lua\_settop} or @Lid{lua\_pop}, unless previously deactivated by @Lid{lua\_closeslot}.

This function should not be called for an index that is equal to or below an active to-be-closed slot.

Note that, both in case of errors and of a regular return,

by the time the @idx{\_\_close} metameethod runs,  
the @N{C stack} was already unwound,  
so that any automatic @N{C variable} declared in the calling function  
(e.g., a buffer) will be out of scope.

}

```
@APIEntry{lua_Integer lua_tointeger (lua_State *L, int index);|
@apii{0,0,-}
```

Equivalent to @Lid{lua\_tointegerx} with @id{isnum} equal to @id{NULL}.

}

```
@APIEntry{lua_Integer lua_tointegerx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}
```

Converts the Lua value at the given index  
to the signed integral type @Lid{lua\_Integer}.  
The Lua value must be an integer,  
or a number or string convertible to an integer @see{coercion};  
otherwise, @id{lua\_tointegerx} @N{returns 0}.

If @id{isnum} is not @id{NULL},  
its referent is assigned a boolean value that  
indicates whether the operation succeeded.

}

```
@APIEntry{const char *lua_tolstring (lua_State *L, int index, size_t *len);|
@apii{0,0,m}
```

Converts the Lua value at the given index to a @N{C string}.  
If @id{len} is not @id{NULL},  
it sets @T{\*len} with the string length.  
The Lua value must be a string or a number;  
otherwise, the function returns @id{NULL}.  
If the value is a number,  
then @id{lua\_tolstring} also  
@emph{changes the actual value in the stack to a string}.  
(This change confuses @Lid{lua\_next}  
when @id{lua\_tolstring} is applied to keys during a table traversal.)

@id{lua\_tolstring} returns a pointer  
to a string inside the Lua state @see{constchar}.  
This string always has a zero (@Char{0})  
after its last character (as @N{in C}),  
but can contain other zeros in its body.

```
}
```

```
@APIEntry{lua_Number lua_tonumber (lua_State *L, int index);|  
@apii{0,0,-}}
```

Equivalent to @Lid{lua\_tonumberx} with @id{isnum} equal to @id{NULL}.

```
}
```

```
@APIEntry{lua_Number lua_tonumberx (lua_State *L, int index, int *isnum);|  
@apii{0,0,-}}
```

Converts the Lua value at the given index  
to the @N{C type} @Lid{lua\_Number} @seeC{lua\_Number}.  
The Lua value must be a number or a string convertible to a number  
@see{coercion};  
otherwise, @Lid{lua\_tonumberx} @N{returns 0}.

If @id{isnum} is not @id{NULL},  
its referent is assigned a boolean value that  
indicates whether the operation succeeded.

```
}
```

```
@APIEntry{const void *lua_topointer (lua_State *L, int index);|  
@apii{0,0,-}}
```

Converts the value at the given index to a generic  
@N{C pointer} (@T{void\*}).  
The value can be a userdata, a table, a thread, a string, or a function;  
otherwise, @id{lua\_topointer} returns @id{NULL}.  
Different objects will give different pointers.  
There is no way to convert the pointer back to its original value.

Typically this function is used only for hashing and debug information.

```
}
```

```
@APIEntry{const char *lua_tostring (lua_State *L, int index);|  
@apii{0,0,m}}
```

Equivalent to @Lid{lua\_tolstring} with @id{len} equal to @id{NULL}.

```
}
```

```
@APIEntry{lua_State *lua_tothread (lua_State *L, int index);|  
@apii{0,0,-}}
```

Converts the value at the given index to a Lua thread  
(represented as @T{lua\_State\*}).  
This value must be a thread;  
otherwise, the function returns @id{NULL}.

}

```
@APIEntry{void *lua_touserdata (lua_State *L, int index);|
@apii{0,0,-}}
```

If the value at the given index is a full userdata,  
returns its memory-block address.  
If the value is a light userdata,  
returns its value (a pointer).  
Otherwise, returns @id{NULL}.

}

```
@APIEntry{int lua_type (lua_State *L, int index);|
@apii{0,0,-}}
```

Returns the type of the value in the given valid index,  
or @id{LUA\_TNONE} for a non-valid but acceptable index.  
The types returned by @Lid{lua\_type} are coded by the following constants  
defined in @id{lua.h}:

```
@defid{LUA_TNIL},
@defid{LUA_TNUMBER},
@defid{LUA_TBOOLEAN},
@defid{LUA_TSTRING},
@defid{LUA_TTABLE},
@defid{LUA_TFUNCTION},
@defid{LUA_TUSERDATA},
@defid{LUA_TTHREAD},
and
@defid{LUA_TLIGHTUSERDATA}.
```

}

```
@APIEntry{const char *lua_typename (lua_State *L, int tp);|
@apii{0,0,-}}
```

Returns the name of the type encoded by the value @id{tp},  
which must be one the values returned by @Lid{lua\_type}.

}

```
@APIEntry{typedef @ldots lua_Unsigned;|
```

The unsigned version of @Lid{lua\_Integer}.

}

@APIEntry{int lua\_upvalueindex (int i);|

@apii{0,0,-}

Returns the pseudo-index that represents the @id{i}-th upvalue of the running function @see{c-closure}.

@id{i} must be in the range @M{[1,256]}.

}

@APIEntry{lua\_Number lua\_version (lua\_State \*L);|

@apii{0,0,-}

Returns the version number of this core.

}

@APIEntry{

typedef void (\*lua\_WarnFunction) (void \*ud, const char \*msg, int tocont);|

The type of @x{warning function}s, called by Lua to emit warnings.

The first parameter is an opaque pointer set by @Lid{lua\_setwarnf}.

The second parameter is the warning message.

The third parameter is a boolean that indicates whether the message is to be continued by the message in the next call.

See @Lid{warn} for more details about warnings.

}

@APIEntry{

void lua\_warning (lua\_State \*L, const char \*msg, int tocont);|

@apii{0,0,-}

Emits a warning with the given message.

A message in a call with @id{tocont} true should be continued in another call to this function.

See @Lid{warn} for more details about warnings.

}

```
@APIEntry{
typedef int (*lua_Writer) (lua_State *L,
                           const void* p,
                           size_t sz,
                           void* ud);|
```

The type of the writer function used by @Lid{lua\_dump}.  
Every time @Lid{lua\_dump} produces another piece of chunk,  
it calls the writer,  
passing along the buffer to be written (@id{p}),  
its size (@id{sz}),  
and the @id{ud} parameter supplied to @Lid{lua\_dump}.

The writer returns an error code:

@N{0 means} no errors;  
any other value means an error and stops @Lid{lua\_dump} from  
calling the writer again.

```
}
```

```
@APIEntry{void lua_xmove (lua_State *from, lua_State *to, int n);|
@apii{?,?,-}
```

Exchange values between different threads of the same state.

This function pops @id{n} values from the stack @id{from},  
and pushes them onto the stack @id{to}.

```
}
```

```
@APIEntry{int lua_yield (lua_State *L, int nresults);|
@apii{?,?,v}
```

This function is equivalent to @Lid{lua\_yieldk},  
but it has no continuation @see{continuations}.  
Therefore, when the thread resumes,  
it continues the function that called  
the function calling @id{lua\_yield}.  
To avoid surprises,  
this function should be called only in a tail call.

```
}
```

```
@APIEntry{
int lua_yieldk (lua_State *L,
                int nresults,
                lua_KContext ctx,
```

```
lua_KFunction k);  
@api{?,?,v}
```

Yields a coroutine (thread).

When a @N{C function} calls @Lid{lua\_yieldk},  
the running coroutine suspends its execution,  
and the call to @Lid{lua\_resume} that started this coroutine returns.  
The parameter @id{nresults} is the number of values from the stack  
that will be passed as results to @Lid{lua\_resume}.

When the coroutine is resumed again,  
Lua calls the given @x{continuation function} @id{k} to continue  
the execution of the @N{C function} that yielded @see{continuations}.  
This continuation function receives the same stack  
from the previous function,  
with the @id{n} results removed and  
replaced by the arguments passed to @Lid{lua\_resume}.  
Moreover,  
the continuation function receives the value @id{ctx}  
that was passed to @Lid{lua\_yieldk}.

Usually, this function does not return;  
when the coroutine eventually resumes,  
it continues executing the continuation function.  
However, there is one special case,  
which is when this function is called  
from inside a line or a count hook @see{debugI}.  
In that case, @id{lua\_yieldk} should be called with no continuation  
(probably in the form of @Lid{lua\_yield}) and no results,  
and the hook should return immediately after the call.  
Lua will yield and,  
when the coroutine resumes again,  
it will continue the normal execution  
of the (Lua) function that triggered the hook.

This function can raise an error if it is called from a thread  
with a pending C call with no continuation function  
(what is called a @emphx{C-call boundary}),  
or it is called from a thread that is not running inside a resume  
(typically the main thread).

```
}
```

```
}
```

```
@sect2{debugI| @title{The Debug Interface}}
```



Lua has no built-in debugging facilities. Instead, it offers a special interface by means of functions and `@emph{hooks}`. This interface allows the construction of different kinds of debuggers, profilers, and other tools that need `@Q{inside information}` from the interpreter.

```
@APIEntry{
typedef struct lua_Debug {
    int event;
    const char *name;      /* (n) */
    const char *namewhat; /* (n) */
    const char *what;     /* (S) */
    const char *source;   /* (S) */
    size_t srclen;       /* (S) */
    int currentline;     /* (l) */
    int linedefined;     /* (S) */
    int lastlinedefined; /* (S) */
    unsigned char nups;   /* (u) number of upvalues */
    unsigned char nparams; /* (u) number of parameters */
    char isvararg;       /* (u) */
    char istailcall;     /* (t) */
    unsigned short ftransfer; /* (r) index of first value transferred */
    unsigned short ntransfer; /* (r) number of transferred values */
    char short_src[LUA_IDSIZE]; /* (S) */
    /* private part */
    @rep{other fields}
} lua_Debug;
|
```

A structure used to carry different pieces of information about a function or an activation record.

`@Lid{lua_getstack}` fills only the private part of this structure, for later use.

To fill the other fields of `@Lid{lua_Debug}` with useful information, you must call `@Lid{lua_getinfo}` with an appropriate parameter.

(Specifically, to get a field, you must add the letter between parentheses in the field's comment to the parameter `@id{what}` of `@Lid{lua_getinfo}`.)

The fields of `@Lid{lua_Debug}` have the following meaning:

`@description{`

`@item{ @id{source} |`

the source of the chunk that created the function.

If `@T{source}` starts with a `@Char{ @At}`,

it means that the function was defined in a file where

the file name follows the @Char{@At}.  
If @T{source} starts with a @Char{=},  
the remainder of its contents describes the source in a user-dependent manner.  
Otherwise,  
the function was defined in a string where  
@T{source} is that string.  
}

@item{@id{srclen}|  
The length of the string @id{source}.  
}

@item{@id{short\_src}|  
a @Q{printable} version of @T{source}, to be used in error messages.  
}

@item{@id{linedefined}|  
the line number where the definition of the function starts.  
}

@item{@id{lastlinedefined}|  
the line number where the definition of the function ends.  
}

@item{@id{what}|  
the string @T{"Lua"} if the function is a Lua function,  
@T{"C"} if it is a @N{C function},  
@T{"main"} if it is the main part of a chunk.  
}

@item{@id{currentline}|  
the current line where the given function is executing.  
When no line information is available,  
@T{currentline} is set to @num{-1}.  
}

@item{@id{name}|  
a reasonable name for the given function.  
Because functions in Lua are first-class values,  
they do not have a fixed name:  
some functions can be the value of multiple global variables,  
while others can be stored only in a table field.  
The @T{lua\_getinfo} function checks how the function was  
called to find a suitable name.  
If it cannot find a name,  
then @id{name} is set to @id{NULL}.  
}

`@item{ @id{namewhat}|`  
explains the `@T{name}` field.  
The value of `@T{namewhat}` can be  
`@T{"global"}`, `@T{"local"}`, `@T{"method"}`,  
`@T{"field"}`, `@T{"upvalue"}`, or `@T{""}` (the empty string),  
according to how the function was called.  
(Lua uses the empty string when no other option seems to apply.)  
`}`

`@item{ @id{istailcall}|`  
true if this function invocation was called by a tail call.  
In this case, the caller of this level is not in the stack.  
`}`

`@item{ @id{nups}|`  
the number of upvalues of the function.  
`}`

`@item{ @id{nparams}|`  
the number of parameters of the function  
(always `@N{0}` for `@N{C}` functions).  
`}`

`@item{ @id{isvararg}|`  
true if the function is a vararg function  
(always true for `@N{C}` functions).  
`}`

`@item{ @id{ftransfer}|`  
the index in the stack of the first value being `@Q{transferred}`,  
that is, parameters in a call or return values in a return.  
(The other values are in consecutive indices.)  
Using this index, you can access and modify these values  
through `@Lid{lua_getlocal}` and `@Lid{lua_setlocal}`.  
This field is only meaningful during a  
call hook, denoting the first parameter,  
or a return hook, denoting the first value being returned.  
(For call hooks, this value is always 1.)  
`}`

`@item{ @id{ntransfer}|`  
The number of values being transferred (see previous item).  
(For calls of Lua functions,  
this value is always equal to `@id{nparams}`.)  
`}`

`}`

```
}
```

```
@APIEntry{lua_Hook lua_gethook (lua_State *L);|  
@apii{0,0,-}}
```

Returns the current hook function.

```
}
```

```
@APIEntry{int lua_gethookcount (lua_State *L);|  
@apii{0,0,-}}
```

Returns the current hook count.

```
}
```

```
@APIEntry{int lua_gethookmask (lua_State *L);|  
@apii{0,0,-}}
```

Returns the current hook mask.

```
}
```

```
@APIEntry{int lua_getinfo (lua_State *L, const char *what, lua_Debug *ar);|  
@apii{0|1,0|1|2,m}}
```

Gets information about a specific function or function invocation.

To get information about a function invocation, the parameter `@id{ar}` must be a valid activation record that was filled by a previous call to `@Lid{lua_getstack}` or given as argument to a hook `@seeC{lua_Hook}`.

To get information about a function, you push it onto the stack and start the `@id{what}` string with the character `@Char{>}`.

(In that case,

`@id{lua_getinfo}` pops the function from the top of the stack.)

For instance, to know in which line a function `@id{f}` was defined, you can write the following code:

```
@verbatim{  
lua_Debug ar;  
lua_getglobal(L, "f"); /* get global 'f' */  
lua_getinfo(L, ">S", &ar);  
printf("%d\n", ar.linedefined);  
}
```

Each character in the string `@id{what}` selects some fields of the structure `@id{ar}` to be filled or

a value to be pushed on the stack.  
(These characters are also documented in the declaration of  
the structure @Lid{lua\_Debug},  
between parentheses in the comments following each field.)  
@description{

@item{ @Char{f}|  
pushes onto the stack the function that is  
running at the given level;  
}

@item{ @Char{1}| fills in the field @id{currentline};  
}

@item{ @Char{n}| fills in the fields @id{name} and @id{namewhat};  
}

@item{ @Char{r}| fills in the fields @id{ftransfer} and @id{ntransfer};  
}

@item{ @Char{S}|  
fills in the fields @id{source}, @id{short\_src},  
@id{linedefined}, @id{lastlinedefined}, and @id{what};  
}

@item{ @Char{t}| fills in the field @id{istailcall};  
}

@item{ @Char{u}| fills in the fields  
@id{nups}, @id{nparams}, and @id{isvararg};  
}

@item{ @Char{L}|  
pushes onto the stack a table whose indices are  
the lines on the function with some associated code,  
that is, the lines where you can put a break point.  
(Lines with no code include empty lines and comments.)  
If this option is given together with option @Char{f},  
its table is pushed after the function.  
This is the only option that can raise a memory error.  
}

}

This function returns 0 to signal an invalid option in @id{what};  
even then the valid options are handled correctly.

}

```
@APIEntry{const char *lua_getlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0,0|1,-}}
```

Gets information about a local variable or a temporary value of a given activation record or a given function.

In the first case, the parameter @id{ar} must be a valid activation record that was filled by a previous call to @Lid{lua\_getstack} or given as argument to a hook @seeC{lua\_Hook}. The index @id{n} selects which local variable to inspect; see @Lid{debug.getlocal} for details about variable indices and names.

@Lid{lua\_getlocal} pushes the variable's value onto the stack and returns its name.

In the second case, @id{ar} must be @id{NULL} and the function to be inspected must be on the top of the stack.

In this case, only parameters of Lua functions are visible (as there is no information about what variables are active) and no values are pushed onto the stack.

Returns @id{NULL} (and pushes nothing) when the index is greater than the number of active local variables.

```
}
```

```
@APIEntry{int lua_getstack (lua_State *L, int level, lua_Debug *ar);|
@apii{0,0,-}}
```

Gets information about the interpreter runtime stack.

This function fills parts of a @Lid{lua\_Debug} structure with an identification of the @emph{activation record} of the function executing at a given level. @N{Level 0} is the current running function, whereas level @M{n+1} is the function that has called level @M{n} (except for tail calls, which do not count in the stack). When called with a level greater than the stack depth, @Lid{lua\_getstack} returns 0; otherwise it returns 1.

```
}
```

```
@APIEntry{const char *lua_getupvalue (lua_State *L, int funcindex, int n);|
```

@apii{0,0|1,-}

Gets information about the @id{n}-th upvalue of the closure at index @id{funcindex}.

It pushes the upvalue's value onto the stack and returns its name.

Returns @id{NULL} (and pushes nothing)

when the index @id{n} is greater than the number of upvalues.

See @Lid{debug.getupvalue} for more information about upvalues.

}

@APIEntry{typedef void (\*lua\_Hook) (lua\_State \*L, lua\_Debug \*ar);}

Type for debugging hook functions.

Whenever a hook is called, its @id{ar} argument has its field @id{event} set to the specific event that triggered the hook.

Lua identifies these events with the following constants:

@defid{LUA\_HOOKCALL}, @defid{LUA\_HOOKRET},  
@defid{LUA\_HOOKTAILCALL}, @defid{LUA\_HOOKLINE},  
and @defid{LUA\_HOOKCOUNT}.

Moreover, for line events, the field @id{currentline} is also set.

To get the value of any other field in @id{ar}, the hook must call @Lid{lua\_getinfo}.

For call events, @id{event} can be @id{LUA\_HOOKCALL}, the normal value, or @id{LUA\_HOOKTAILCALL}, for a tail call; in this case, there will be no corresponding return event.

While Lua is running a hook, it disables other calls to hooks.

Therefore, if a hook calls back Lua to execute a function or a chunk, this execution occurs without any calls to hooks.

Hook functions cannot have continuations, that is, they cannot call @Lid{lua\_yieldk}, @Lid{lua\_pcallk}, or @Lid{lua\_callk} with a non-null @id{k}.

Hook functions can yield under the following conditions:

Only count and line events can yield;

to yield, a hook function must finish its execution

calling @Lid{lua\_yield} with @id{nresults} equal to zero

(that is, with no values).

}

@APIEntry{void lua\_sethook (lua\_State \*L, lua\_Hook f, int mask, int count);}

@apii{0,0,-}

Sets the debugging hook function.

Argument @id{f} is the hook function.

@id{mask} specifies on which events the hook will be called:

it is formed by a bitwise OR of the constants

@defid{LUA\_MASKCALL},

@defid{LUA\_MASKRET},

@defid{LUA\_MASKLINE},

and @defid{LUA\_MASKCOUNT}.

The @id{count} argument is only meaningful when the mask includes @id{LUA\_MASKCOUNT}.

For each event, the hook is called as explained below:

@description{

@item{The call hook| is called when the interpreter calls a function.

The hook is called just after Lua enters the new function.

}

@item{The return hook| is called when the interpreter returns from a function.

The hook is called just before Lua leaves the function.

}

@item{The line hook| is called when the interpreter is about to start the execution of a new line of code,

or when it jumps back in the code (even to the same line).

This event only happens while Lua is executing a Lua function.

}

@item{The count hook| is called after the interpreter executes every

@T{count} instructions.

This event only happens while Lua is executing a Lua function.

}

}

Hooks are disabled by setting @id{mask} to zero.

}

@APIEntry{const char \*lua\_setlocal (lua\_State \*L, const lua\_Debug \*ar, int n);|

@apii{0|1,0,-}

Sets the value of a local variable of a given activation record.

It assigns the value on the top of the stack

to the variable and returns its name.

It also pops the value from the stack.



Returns @id{NULL} (and pops nothing)  
when the index is greater than  
the number of active local variables.

Parameters @id{ar} and @id{n} are as in the function @Lid{lua\_getlocal}.

}

```
@APIEntry{const char *lua_setupvalue (lua_State *L, int funcindex, int n);|
@apii{0|1,0,-}
```

Sets the value of a closure's upvalue.  
It assigns the value on the top of the stack  
to the upvalue and returns its name.  
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)  
when the index @id{n} is greater than the number of upvalues.

Parameters @id{funcindex} and @id{n} are as in  
the function @Lid{lua\_getupvalue}.

}

```
@APIEntry{void *lua_upvalueid (lua_State *L, int funcindex, int n);|
@apii{0,0,-}
```

Returns a unique identifier for the upvalue numbered @id{n}  
from the closure at index @id{funcindex}.

These unique identifiers allow a program to check whether different  
closures share upvalues.

Lua closures that share an upvalue  
(that is, that access a same external local variable)  
will return identical ids for those upvalue indices.

Parameters @id{funcindex} and @id{n} are as in  
the function @Lid{lua\_getupvalue},  
but @id{n} cannot be greater than the number of upvalues.

}

```
@APIEntry{
void lua_upvaluejoin (lua_State *L, int funcindex1, int n1,
                     int funcindex2, int n2);|
@apii{0,0,-}
```

Make the @id{n1}-th upvalue of the Lua closure at index @id{funcindex1} refer to the @id{n2}-th upvalue of the Lua closure at index @id{funcindex2}.

}

}

}

@C{-----}

@sect1{auxlib|@title{The Auxiliary Library}}

@simplesect{

@index{luaL.h}

The @def{auxiliary library} provides several convenient functions to interface C with Lua.

While the basic API provides the primitive functions for all interactions between C and Lua, the auxiliary library provides higher-level functions for some common tasks.

All functions and types from the auxiliary library are defined in header file @id{luaL.h} and have a prefix @id{luaL\_}.

All functions in the auxiliary library are built on top of the basic API, and so they provide nothing that cannot be done with that API. Nevertheless, the use of the auxiliary library ensures more consistency to your code.

Several functions in the auxiliary library use internally some extra stack slots.

When a function in the auxiliary library uses less than five slots, it does not check the stack size; it simply assumes that there are enough slots.

Several functions in the auxiliary library are used to check @N{C function} arguments.

Because the error message is formatted for arguments (e.g., @St{bad argument #1}), you should not use these functions for other stack values.

Functions called @id{luaL\_check\*} always raise an error if the check is not satisfied.

```
}
```

```
@sect2{ @title{Functions and Types}
```

Here we list all functions and types from the auxiliary library in alphabetical order.

```
@APIEntry{void luaL_addchar (luaL_Buffer *B, char c);|
@apii{?,?,m}
```

Adds the byte @id{c} to the buffer @id{B}  
@seeC{luaL\_Buffer}.

```
}
```

```
@APIEntry{
const void luaL_addgsub (luaL_Buffer *B, const char *s,
                        const char *p, const char *r);|
@apii{?,?,m}
```

Adds a copy of the string @id{s} to the buffer @id{B} @seeC{luaL\_Buffer}, replacing any occurrence of the string @id{p} with the string @id{r}.

```
}
```

```
@APIEntry{void luaL_addlstring (luaL_Buffer *B, const char *s, size_t l);|
@apii{?,?,m}
```

Adds the string pointed to by @id{s} with length @id{l} to the buffer @id{B}  
@seeC{luaL\_Buffer}.

The string can contain @x{embedded zeros}.

```
}
```

```
@APIEntry{void luaL_addsize (luaL_Buffer *B, size_t n);|
@apii{?,?,-}
```

Adds to the buffer @id{B}  
a string of length @id{n} previously copied to the  
buffer area @seeC{luaL\_prepbuffer}.

```
}
```

```
@APIEntry{void luaL_addstring (luaL_Buffer *B, const char *s);|
@api{?,?,m}
```

Adds the zero-terminated string pointed to by @id{s}  
to the buffer @id{B}  
@seeC{luaL\_Buffer}.

```
}
```

```
@APIEntry{void luaL_addvalue (luaL_Buffer *B);|
@api{?,?,m}
```

Adds the value on the top of the stack  
to the buffer @id{B}  
@seeC{luaL\_Buffer}.

Pops the value.

This is the only function on string buffers that can (and must)  
be called with an extra element on the stack,  
which is the value to be added to the buffer.

```
}
```

```
@APIEntry{
void luaL_argcheck (lua_State *L,
                    int cond,
                    int arg,
                    const char *extrams);|
@api{0,0,v}
```

Checks whether @id{cond} is true.  
If it is not, raises an error with a standard message @seeF{luaL\_argerror}.

```
}
```

```
@APIEntry{int luaL_argerror (lua_State *L, int arg, const char *extrams);|
@api{0,0,v}
```

Raises an error reporting a problem with argument @id{arg}  
of the @N{C function} that called it,  
using a standard message  
that includes @id{extrams} as a comment:  
@verbatim{  
bad argument #@rep{arg} to '@rep{funcname}' (@rep{extrams})  
}

This function never returns.

```
}
```

```

@APIEntry{
void luaL_argexpected (lua_State *L,
    int cond,
    int arg,
    const char *tname);
}
@apii{0,0,v}

```

Checks whether @id{cond} is true.  
 If it is not, raises an error about the type of the argument @id{arg} with a standard message @seeF{luaL\_typeerror}.

```

}

```

```

@APIEntry{typedef struct luaL_Buffer luaL_Buffer;}

```

Type for a @def{string buffer}.

A string buffer allows @N{C code} to build Lua strings piecemeal.  
 Its pattern of use is as follows:

```

@itemize{

```

```

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

```

```

@item{Then initialize it with a call @T{luaL_buffinit(L, &b)}.}

```

```

@item{
Then add string pieces to the buffer calling any of
the @id{luaL_add*} functions.
}

```

```

@item{
Finish by calling @T{luaL_pushresult(&b)}.
This call leaves the final string on the top of the stack.
}

```

```

}

```

If you know beforehand the maximum size of the resulting string,  
 you can use the buffer like this:

```

@itemize{

```

```

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

```

```

@item{Then initialize it and preallocate a space of
size @id{sz} with a call @T{luaL_buffinitsize(L, &b, sz)}.}

```

```

@item{Then produce the string into that space.}

```

```

@item{
Finish by calling @T{luaL_pushresultsz(&b, sz)},
where @id{sz} is the total size of the resulting string
copied into that space (which may be less than or
equal to the preallocated size).
}
}

```

During its normal operation,  
a string buffer uses a variable number of stack slots.  
So, while using a buffer, you cannot assume that you know where  
the top of the stack is.  
You can use the stack between successive calls to buffer operations  
as long as that use is balanced;  
that is,  
when you call a buffer operation,  
the stack is at the same level  
it was immediately after the previous buffer operation.  
(The only exception to this rule is @Lid{luaL\_addvalue}.)  
After calling @Lid{luaL\_pushresult},  
the stack is back to its level when the buffer was initialized,  
plus the final string on its top.

```

}

@APIEntry{char *luaL_buffaddr (luaL_Buffer *B);|
@apii{0,0,-}

```

Returns the address of the current content of buffer @id{B}  
@seeC{luaL\_Buffer}.  
Note that any addition to the buffer may invalidate this address.

```

}

@APIEntry{void luaL_buffinit (lua_State *L, luaL_Buffer *B);|
@apii{0,?, -}

```

Initializes a buffer @id{B}  
@seeC{luaL\_Buffer}.  
This function does not allocate any space;  
the buffer must be declared as a variable.

```

}

@APIEntry{size_t luaL_bufflen (luaL_Buffer *B);|
@apii{0,0,-}

```

Returns the length of the current content of buffer @id{B}

@seeC{luaL\_Buffer}.

}

@APIEntry{char \*luaL\_buffinitsize (lua\_State \*L, luaL\_Buffer \*B, size\_t sz);|

@apii{?,?,m}

Equivalent to the sequence

@Lid{luaL\_buffinit}, @Lid{luaL\_prepbuffsize}.

}

@APIEntry{void luaL\_buffsub (luaL\_Buffer \*B, int n);|

@apii{?,?,-}

Removes @id{n} bytes from the the buffer @id{B}

@seeC{luaL\_Buffer}.

The buffer must have at least that many bytes.

}

@APIEntry{int luaL\_callmeta (lua\_State \*L, int obj, const char \*e);|

@apii{0,0|1,e}

Calls a metamethod.

If the object at index @id{obj} has a metatable and this

metatable has a field @id{e},

this function calls this field passing the object as its only argument.

In this case this function returns true and pushes onto the

stack the value returned by the call.

If there is no metatable or no metamethod,

this function returns false without pushing any value on the stack.

}

@APIEntry{void luaL\_checkany (lua\_State \*L, int arg);|

@apii{0,0,v}

Checks whether the function has an argument

of any type (including @nil) at position @id{arg}.

}

@APIEntry{lua\_Integer luaL\_checkinteger (lua\_State \*L, int arg);|

@apii{0,0,v}

Checks whether the function argument @id{arg} is an integer  
(or can be converted to an integer)  
and returns this integer.

```
}
```

```
@APIEntry{const char *luaL_checklstring (lua_State *L, int arg, size_t *l);  
@apii{0,0,v}}
```

Checks whether the function argument @id{arg} is a string  
and returns this string;  
if @id{1} is not @id{NULL} fills its referent  
with the string's length.

This function uses @Lid{lua\_tolstring} to get its result,  
so all conversions and caveats of that function apply here.

```
}
```

```
@APIEntry{lua_Number luaL_checknumber (lua_State *L, int arg);  
@apii{0,0,v}}
```

Checks whether the function argument @id{arg} is a number  
and returns this number converted to a @id{lua\_Number}.

```
}
```

```
@APIEntry{  
int luaL_checkoption (lua_State *L,  
                      int arg,  
                      const char *def,  
                      const char *const lst[]);  
@apii{0,0,v}}
```

Checks whether the function argument @id{arg} is a string and  
searches for this string in the array @id{lst}  
(which must be NULL-terminated).  
Returns the index in the array where the string was found.  
Raises an error if the argument is not a string or  
if the string cannot be found.

If @id{def} is not @id{NULL},  
the function uses @id{def} as a default value when  
there is no argument @id{arg} or when this argument is @nil.

This is a useful function for mapping strings to @N{C enums}.  
(The usual convention in Lua libraries is



to use strings instead of numbers to select options.)

}

```
@APIEntry{void luaL_checkstack (lua_State *L, int sz, const char *msg);|
@apii{0,0,v}
```

Grows the stack size to @T{top + sz} elements,  
raising an error if the stack cannot grow to that size.  
@id{msg} is an additional text to go into the error message  
(or @id{NULL} for no additional text).

}

```
@APIEntry{const char *luaL_checkstring (lua_State *L, int arg);|
@apii{0,0,v}
```

Checks whether the function argument @id{arg} is a string  
and returns this string.

This function uses @Lid{lua\_tolstring} to get its result,  
so all conversions and caveats of that function apply here.

}

```
@APIEntry{void luaL_checktype (lua_State *L, int arg, int t);|
@apii{0,0,v}
```

Checks whether the function argument @id{arg} has type @id{t}.  
See @Lid{lua\_type} for the encoding of types for @id{t}.

}

```
@APIEntry{void *luaL_checkudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,v}
```

Checks whether the function argument @id{arg} is a userdata  
of the type @id{tname} @seeC{luaL\_newmetatable} and  
returns the userdata's memory-block address @seeC{lua\_touserdata}.

}

```
@APIEntry{void luaL_checkversion (lua_State *L);|
@apii{0,0,v}
```

Checks whether the code making the call and the Lua library being called  
are using the same version of Lua and the same numeric types.

```
}
```

```
@APIEntry{int luaL_dofile (lua_State *L, const char *filename);|  
@apii{0,?,m}}
```

Loads and runs the given file.

It is defined as the following macro:

```
@verbatim{  
(luaL_loadfile(L, filename) || lua_pcall(L, 0, LUA_MULTRET, 0))  
}
```

It returns @Lid{LUA\_OK} if there are no errors,  
or an error code in case of errors @see{statuscodes}.

```
}
```

```
@APIEntry{int luaL_dostring (lua_State *L, const char *str);|  
@apii{0,?,-}}
```

Loads and runs the given string.

It is defined as the following macro:

```
@verbatim{  
(luaL_loadstring(L, str) || lua_pcall(L, 0, LUA_MULTRET, 0))  
}
```

It returns @Lid{LUA\_OK} if there are no errors,  
or an error code in case of errors @see{statuscodes}.

```
}
```

```
@APIEntry{int luaL_error (lua_State *L, const char *fmt, ...);|  
@apii{0,0,v}}
```

Raises an error.

The error message format is given by @id{fmt}

plus any extra arguments,

following the same rules of @Lid{lua\_pushfstring}.

It also adds at the beginning of the message the file name and

the line number where the error occurred,

if this information is available.

This function never returns,

but it is an idiom to use it in @N{C functions}

as @T{return luaL\_error(@rep{args})}.

```
}
```

```
@APIEntry{int luaL_execresult (lua_State *L, int stat);|  
@apii{0,3,m}}
```

This function produces the return values for process-related functions in the standard library (@Lid{os.execute} and @Lid{io.close}).

}

```
@APIEntry{
int luaL_fileresult (lua_State *L, int stat, const char *fname);|
@apii{0,1|3,m}
```

This function produces the return values for file-related functions in the standard library (@Lid{io.open}, @Lid{os.rename}, @Lid{file:seek}, etc.).

}

```
@APIEntry{int luaL_getmetafield (lua_State *L, int obj, const char *e);|
@apii{0,0|1,m}
```

Pushes onto the stack the field @id{e} from the metatable of the object at index @id{obj} and returns the type of the pushed value. If the object does not have a metatable, or if the metatable does not have this field, pushes nothing and returns @id{LUA\_TNIL}.

}

```
@APIEntry{int luaL_getmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}
```

Pushes onto the stack the metatable associated with the name @id{tname} in the registry @seeC{luaL\_newmetatable}, or @nil if there is no metatable associated with that name. Returns the type of the pushed value.

}

```
@APIEntry{int luaL_getsubtable (lua_State *L, int idx, const char *fname);|
@apii{0,1,e}
```

Ensures that the value @T{t{fname}}, where @id{t} is the value at index @id{idx}, is a table, and pushes that table onto the stack. Returns true if it finds a previous table there and false if it creates a new table.

}

```
@APIEntry{
const char *luaL_gsub (lua_State *L,
    const char *s,
    const char *p,
    const char *r);|
@apii{0,1,m}
```

Creates a copy of string @id{s},  
replacing any occurrence of the string @id{p}  
with the string @id{r}.  
Pushes the resulting string on the stack and returns it.

```
}
```

```
@APIEntry{lua_Integer luaL_len (lua_State *L, int index);|
@apii{0,0,e}
```

Returns the @Q{length} of the value at the given index  
as a number;  
it is equivalent to the @Char{#} operator in Lua @see{len-op}.  
Raises an error if the result of the operation is not an integer.  
(This case can only happen through metamethods.)

```
}
```

```
@APIEntry{
int luaL_loadbuffer (lua_State *L,
    const char *buff,
    size_t sz,
    const char *name);|
@apii{0,1,-}
```

Equivalent to @Lid{luaL\_loadbufferx} with @id{mode} equal to @id{NULL}.

```
}
```

```
@APIEntry{
int luaL_loadbufferx (lua_State *L,
    const char *buff,
    size_t sz,
    const char *name,
    const char *mode);|
@apii{0,1,-}
```

Loads a buffer as a Lua chunk.  
This function uses @Lid{lua\_load} to load the chunk in the

buffer pointed to by @id{buff} with size @id{sz}.

This function returns the same results as @Lid{lua\_load}.

@id{name} is the chunk name,

used for debug information and error messages.

The string @id{mode} works as in the function @Lid{lua\_load}.

}

```
@APIEntry{int luaL_loadfile (lua_State *L, const char *filename);|
```

```
@apii{0,1,m}
```

Equivalent to @Lid{luaL\_loadfilex} with @id{mode} equal to @id{NULL}.

}

```
@APIEntry{int luaL_loadfilex (lua_State *L, const char *filename,  
                             const char *mode);|
```

```
@apii{0,1,m}
```

Loads a file as a Lua chunk.

This function uses @Lid{lua\_load} to load the chunk in the file named @id{filename}.

If @id{filename} is @id{NULL},

then it loads from the standard input.

The first line in the file is ignored if it starts with a @T{#}.

The string @id{mode} works as in the function @Lid{lua\_load}.

This function returns the same results as @Lid{lua\_load}

or @Lid{LUA\_ERRFILE} for file-related errors.

As @Lid{lua\_load}, this function only loads the chunk;

it does not run it.

}

```
@APIEntry{int luaL_loadstring (lua_State *L, const char *s);|
```

```
@apii{0,1,-}
```

Loads a string as a Lua chunk.

This function uses @Lid{lua\_load} to load the chunk in the zero-terminated string @id{s}.

This function returns the same results as @Lid{lua\_load}.

Also as @Lid{lua\_load}, this function only loads the chunk;

it does not run it.

```
}
```

```
@APIEntry{void luaL_newlib (lua_State *L, const luaL_Reg l[]);|
@api{0,1,m}
```

Creates a new table and registers there  
the functions in the list @id{1}.

It is implemented as the following macro:

```
@verbatim{
(luaL_newlibtable(L,l), luaL_setfuncs(L,l,0))
}
```

The array @id{1} must be the actual array,  
not a pointer to it.

```
}
```

```
@APIEntry{void luaL_newlibtable (lua_State *L, const luaL_Reg l[]);|
@api{0,1,m}
```

Creates a new table with a size optimized  
to store all entries in the array @id{1}  
(but does not actually store them).

It is intended to be used in conjunction with @Lid{luaL\_setfuncs}  
@seeF{luaL\_newlib}.

It is implemented as a macro.

The array @id{1} must be the actual array,  
not a pointer to it.

```
}
```

```
@APIEntry{int luaL_newmetatable (lua_State *L, const char *tname);|
@api{0,1,m}
```

If the registry already has the key @id{tname},  
returns 0.

Otherwise,  
creates a new table to be used as a metatable for userdata,  
adds to this new table the pair @T{\_\_name = tname},  
adds to the registry the pair @T{[tname] = new table},  
and returns 1.

In both cases,  
the function pushes onto the stack the final value associated

with @id{tname} in the registry.

}

```
@APIEntry{lua_State *luaL_newstate (void);|
@apii{0,0,-}
```

Creates a new Lua state.

It calls @Lid{lua\_newstate} with an allocator based on the @N{standard C} allocation functions and then sets a warning function and a panic function @see{C-error} that print messages to the standard error output.

Returns the new state,  
or @id{NULL} if there is a @x{memory allocation error}.

}

```
@APIEntry{void luaL_openlibs (lua_State *L);|
@apii{0,0,e}
```

Opens all standard Lua libraries into the given state.

}

```
@APIEntry{
T luaL_opt (L, func, arg, dflt);|
@apii{0,0,-}
```

This macro is defined as follows:

```
@verbatim{
(lua_isnoneornil(L,(arg)) ? (dflt) : func(L,(arg)))
}
```

In words, if the argument @id{arg} is nil or absent, the macro results in the default @id{dflt}.

Otherwise, it results in the result of calling @id{func} with the state @id{L} and the argument index @id{arg} as arguments.

Note that it evaluates the expression @id{dflt} only if needed.

}

```
@APIEntry{
lua_Integer luaL_optinteger (lua_State *L,
int arg,
lua_Integer d);|
@apii{0,0,v}
```

If the function argument @id{arg} is an integer  
(or it is convertible to an integer),  
returns this integer.  
If this argument is absent or is @nil,  
returns @id{d}.  
Otherwise, raises an error.

}

```
@APIEntry{  
const char *luaL_optlstring (lua_State *L,  
                             int arg,  
                             const char *d,  
                             size_t *l);  
@apii{0,0,v}
```

If the function argument @id{arg} is a string,  
returns this string.  
If this argument is absent or is @nil,  
returns @id{d}.  
Otherwise, raises an error.

If @id{l} is not @id{NULL},  
fills its referent with the result's length.  
If the result is @id{NULL}  
(only possible when returning @id{d} and @T{d == NULL}),  
its length is considered zero.

This function uses @Lid{lua\_tolstring} to get its result,  
so all conversions and caveats of that function apply here.

}

```
@APIEntry{lua_Number luaL_optnumber (lua_State *L, int arg, lua_Number d);  
@apii{0,0,v}
```

If the function argument @id{arg} is a number,  
returns this number as a @id{lua\_Number}.  
If this argument is absent or is @nil,  
returns @id{d}.  
Otherwise, raises an error.

}

```
@APIEntry{  
const char *luaL_optstring (lua_State *L,  
                             int arg,  
                             const char *d);
```



```
@apii{0,0,v}
```

If the function argument @id{arg} is a string,  
returns this string.

If this argument is absent or is @nil,  
returns @id{d}.

Otherwise, raises an error.

```
}
```

```
@APIEntry{char *luaL_prepbuffer (luaL_Buffer *B);|  
@apii{?,?,m}
```

Equivalent to @Lid{luaL\_prepbuffsize}  
with the predefined size @defid{LUAL\_BUFFERSIZE}.

```
}
```

```
@APIEntry{char *luaL_prepbuffsize (luaL_Buffer *B, size_t sz);|  
@apii{?,?,m}
```

Returns an address to a space of size @id{sz}  
where you can copy a string to be added to buffer @id{B}  
@seeC{luaL\_Buffer}.

After copying the string into this space you must call  
@Lid{luaL\_addsize} with the size of the string to actually add  
it to the buffer.

```
}
```

```
@APIEntry{void luaL_pushfail (lua_State *L);|  
@apii{0,1,-}
```

Pushes the @fail value onto the stack @see{libraries}.

```
}
```

```
@APIEntry{void luaL_pushresult (luaL_Buffer *B);|  
@apii{?,1,m}
```

Finishes the use of buffer @id{B} leaving the final string on  
the top of the stack.

```
}
```

```
@APIEntry{void luaL_pushresultsize (luaL_Buffer *B, size_t sz);|  
@apii{?,1,m}
```

Equivalent to the sequence @Lid{luaL\_addsize}, @Lid{luaL\_pushresult}.

}

```
@APIEntry{int luaL_ref(lua_State *L, int t);|
@apii{1,0,m}
```

Creates and returns a @def{reference},  
in the table at index @id{t},  
for the object on the top of the stack (and pops the object).

A reference is a unique integer key.

As long as you do not manually add integer keys into the table @id{t},

@Lid{luaL\_ref} ensures the uniqueness of the key it returns.

You can retrieve an object referred by the reference @id{r}

by calling @T{lua\_rawgeti}(L, t, r).

The function @Lid{luaL\_unref} frees a reference.

If the object on the top of the stack is @nil,

@Lid{luaL\_ref} returns the constant @defid{LUA\_REFNIL}.

The constant @defid{LUA\_NOREF} is guaranteed to be different  
from any reference returned by @Lid{luaL\_ref}.

}

```
@APIEntry{
typedef struct luaL_Reg {
    const char *name;
    lua_CFunction func;
} luaL_Reg;
|
```

Type for arrays of functions to be registered by

@Lid{luaL\_setfuncs}.

@id{name} is the function name and @id{func} is a pointer to  
the function.

Any array of @Lid{luaL\_Reg} must end with a sentinel entry  
in which both @id{name} and @id{func} are @id{NULL}.

}

```
@APIEntry{
void luaL_requiref(lua_State *L, const char *modname,
    lua_CFunction openf, int glb);|
@apii{0,1,e}
```

If @T{package.loaded[modname]} is not true,

calls the function @id{openf} with the string @id{modname} as an argument

and sets the call result to @T{package.loaded[modname]},  
as if that function has been called through @Lid{require}.

If @id{glb} is true,  
also stores the module into the global @id{modname}.

Leaves a copy of the module on the stack.

}

```
@APIEntry{void luaL_setfuncs (lua_State *L, const luaL_Reg *l, int nup);|
@apii{nup,0,m}
```

Registers all functions in the array @id{l}  
@seeC{lual\_Reg} into the table on the top of the stack  
(below optional upvalues, see next).

When @id{nup} is not zero,  
all functions are created with @id{nup} upvalues,  
initialized with copies of the @id{nup} values  
previously pushed on the stack  
on top of the library table.  
These values are popped from the stack after the registration.

A function with a @id{NULL} value represents a placeholder,  
which is filled with @false.

}

```
@APIEntry{void luaL_setmetatable (lua_State *L, const char *tname);|
@apii{0,0,-}
```

Sets the metatable of the object on the top of the stack  
as the metatable associated with name @id{tname}  
in the registry @seeC{lual\_newmetatable}.

}

```
@APIEntry{
typedef struct luaL_Stream {
    FILE *f;
    lua_CFunction closef;
} luaL_Stream;
|
```

The standard representation for @x{file handles}  
used by the standard I/O library.

A file handle is implemented as a full userdata,  
with a metatable called @id{LUA\_FILEHANDLE}  
(where @id{LUA\_FILEHANDLE} is a macro with the actual metatable's name).  
The metatable is created by the I/O library  
@seeF{luaL\_newmetatable}.

This userdata must start with the structure @id{luaL\_Stream};  
it can contain other data after this initial structure.  
The field @id{f} points to the corresponding C stream  
(or it can be @id{NULL} to indicate an incompletely created handle).  
The field @id{closef} points to a Lua function  
that will be called to close the stream  
when the handle is closed or collected;  
this function receives the file handle as its sole argument and  
must return either a true value, in case of success,  
or a false value plus an error message, in case of error.  
Once Lua calls this field,  
it changes the field value to @id{NULL}  
to signal that the handle is closed.

}

```
@APIEntry{void *luaL_testudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,m}
```

This function works like @Lid{luaL\_checkudata},  
except that, when the test fails,  
it returns @id{NULL} instead of raising an error.

}

```
@APIEntry{const char *luaL_tolstring (lua_State *L, int idx, size_t *len);|
@apii{0,1,e}
```

Converts any Lua value at the given index to a @N{C string}  
in a reasonable format.

The resulting string is pushed onto the stack and also  
returned by the function @see{constchar}.

If @id{len} is not @id{NULL},  
the function also sets @T{\*len} with the string length.

If the value has a metatable with a @idx{\_\_tostring} field,  
then @id{luaL\_tolstring} calls the corresponding metamethod  
with the value as argument,  
and uses the result of the call as its result.

}

```
@APIEntry{
void luaL_traceback (lua_State *L, lua_State *L1, const char *msg,
                    int level);|
@apii{0,1,m}
```

Creates and pushes a traceback of the stack @id{L1}.  
If @id{msg} is not @id{NULL}, it is appended  
at the beginning of the traceback.  
The @id{level} parameter tells at which level  
to start the traceback.

```
}
```

```
@APIEntry{const char *luaL_typeerror (lua_State *L,
                    int arg,
                    const char *tname);|
@apii{0,0,v}
```

Raises a type error for the argument @id{arg}  
of the @N{C function} that called it,  
using a standard message;  
@id{tname} is a @Q{name} for the expected type.  
This function never returns.

```
}
```

```
@APIEntry{const char *luaL_typename (lua_State *L, int index);|
@apii{0,0,-}
```

Returns the name of the type of the value at the given index.

```
}
```

```
@APIEntry{void luaL_unref (lua_State *L, int t, int ref);|
@apii{0,0,-}
```

Releases the reference @id{ref} from the table at index @id{t}  
@seeC{luaL\_ref}.  
The entry is removed from the table,  
so that the referred object can be collected.  
The reference @id{ref} is also freed to be used again.

If @id{ref} is @Lid{LUA\_NOREF} or @Lid{LUA\_REFNIL},  
@Lid{luaL\_unref} does nothing.

```
}
```

```
@APIEntry{void luaL_where (lua_State *L, int lvl);|
```

@apii{0,1,m}

Pushes onto the stack a string identifying the current position of the control at level @id{lvl} in the call stack.

Typically this string has the following format:

```
@verbatim{
@rep{chunkname}:@rep{currentline}:
}
```

@N{Level 0} is the running function,  
@N{level 1} is the function that called the running function,  
etc.

This function is used to build a prefix for error messages.

```
}
}
}
```

```
@C{-----}
@sect1 {libraries| @title{The Standard Libraries}
```

```
@simplesect{
```

The standard Lua libraries provide useful functions that are implemented @N{in C} through the @N{C API}. Some of these functions provide essential services to the language (e.g., @Lid{type} and @Lid{getmetatable}); others provide access to outside services (e.g., I/O); and others could be implemented in Lua itself, but that for different reasons deserve an implementation in C (e.g., @Lid{table.sort}).

All libraries are implemented through the official @N{C API} and are provided as separate @N{C modules}.

Unless otherwise noted, these library functions do not adjust its number of arguments to its expected parameters.

For instance, a function documented as @T{foo(arg)} should not be called without an argument.

The notation @fail means a false value representing some kind of failure.

(Currently, @fail is equal to @nil, but that may change in future versions.)

The recommendation is to always test the success of these functions

with `@T{(not status)}`, instead of `@T{(status == nil)}`.)

Currently, Lua has the following standard libraries:

```
@itemize{  
  
@item{ @link{predefined|basic library};}  
  
@item{ @link{corolib|coroutine library};}  
  
@item{ @link{packlib|package library};}  
  
@item{ @link{strlib|string manipulation};}  
  
@item{ @link{utf8|basic UTF-8 support};}  
  
@item{ @link{tablib|table manipulation};}  
  
@item{ @link{mathlib|mathematical functions} (sin, log, etc.);}  
  
@item{ @link{iolib|input and output};}  
  
@item{ @link{oslib|operating system facilities};}  
  
@item{ @link{debuglib|debug facilities}.}  
  
}
```

Except for the basic and the package libraries, each library provides all its functions as fields of a global table or as methods of its objects.

To have access to these libraries, the `@N{C host}` program should call the `@Lid{luaL_openlibs}` function, which opens all standard libraries.

Alternatively,

the host program can open them individually by using

`@Lid{luaL_requiref}` to call

`@defid{luaopen_base}` (for the basic library),

`@defid{luaopen_package}` (for the package library),

`@defid{luaopen_coroutine}` (for the coroutine library),

`@defid{luaopen_string}` (for the string library),

`@defid{luaopen_utf8}` (for the UTF-8 library),

`@defid{luaopen_table}` (for the table library),

`@defid{luaopen_math}` (for the mathematical library),

`@defid{luaopen_io}` (for the I/O library),

`@defid{luaopen_os}` (for the operating system library),

and `@defid{luaopen_debug}` (for the debug library).

These functions are declared in `@defid{lualib.h}`.

}

@sect2{predefined| @title{Basic Functions}

The basic library provides core functions to Lua.  
If you do not include this library in your application,  
you should check carefully whether you need to provide  
implementations for some of its facilities.

@LibEntry{assert (v [, message])|

Raises an error if  
the value of its argument @id{v} is false (i.e., @nil or @false);  
otherwise, returns all its arguments.  
In case of error,  
@id{message} is the error object;  
when absent, it defaults to @St{assertion failed!}

}

@LibEntry{collectgarbage ([opt [, arg]])|

This function is a generic interface to the garbage collector.  
It performs different functions according to its first argument, @id{opt}:  
@description{

@item{ @St{collect}}|

Performs a full garbage-collection cycle.  
This is the default option.  
}

@item{ @St{stop}}|

Stops automatic execution of the garbage collector.  
The collector will run only when explicitly invoked,  
until a call to restart it.  
}

@item{ @St{restart}}|

Restarts automatic execution of the garbage collector.  
}

@item{ @St{count}}|

Returns the total memory in use by Lua in Kbytes.  
The value has a fractional part,  
so that it multiplied by 1024



gives the exact number of bytes in use by Lua.

}

@item{ @St{step}|

Performs a garbage-collection step.

The step @Q{size} is controlled by @id{arg}.

With a zero value,

the collector will perform one basic (indivisible) step.

For non-zero values,

the collector will perform as if that amount of memory

(in Kbytes) had been allocated by Lua.

Returns @true if the step finished a collection cycle.

}

@item{ @St{isrunning}|

Returns a boolean that tells whether the collector is running

(i.e., not stopped).

}

@item{ @St{incremental}|

Change the collector mode to incremental.

This option can be followed by three numbers:

the garbage-collector pause,

the step multiplier,

and the step size @see{incmode}.

A zero means to not change that value.

}

@item{ @St{generational}|

Change the collector mode to generational.

This option can be followed by two numbers:

the garbage-collector minor multiplier

and the major multiplier @see{genmode}.

A zero means to not change that value.

}

}

See @See{GC} for more details about garbage collection

and some of these options.

This function should not be called by a finalizer.

}

@LibEntry{dofile ([filename])|

Opens the named file and executes its content as a Lua chunk.

When called without arguments,

@id{dofile} executes the content of the standard input (@id{stdin}).

Returns all values returned by the chunk.

In case of errors, @id{dofile} propagates the error to its caller.

(That is, @id{dofile} does not run in protected mode.)

}

@LibEntry{error (message [, level])}

Raises an error @see{error} with @id{message} as the error object.

This function never returns.

Usually, @id{error} adds some information about the error position at the beginning of the message, if the message is a string.

The @id{level} argument specifies how to get the error position.

With @N{level 1} (the default), the error position is where the

@id{error} function was called.

@N{Level 2} points the error to where the function

that called @id{error} was called; and so on.

Passing a @N{level 0} avoids the addition of error position information to the message.

}

@LibEntry{\_G}

A global variable (not a function) that

holds the @x{global environment} @see{globalenv}.

Lua itself does not use this variable;

changing its value does not affect any environment,

nor vice versa.

}

@LibEntry{getmetatable (object)}

If @id{object} does not have a metatable, returns @nil.

Otherwise,

if the object's metatable has a @idx{\_\_metatable} field,

returns the associated value.

Otherwise, returns the metatable of the given object.

}

@LibEntry{ipairs (t)}

Returns three values (an iterator function, the table @id{t}, and 0)

so that the construction

@verbatim{

for i,v in ipairs(t) do @rep{body} end

}

will iterate over the key@En{ } value pairs  
(@T{1,t[1]}), (@T{2,t[2]}), @ldots,  
up to the first absent index.

}

@LibEntry{load (chunk [, chunkname [, mode [, env]])}

Loads a chunk.

If @id{chunk} is a string, the chunk is this string.

If @id{chunk} is a function,

@id{load} calls it repeatedly to get the chunk pieces.

Each call to @id{chunk} must return a string that concatenates  
with previous results.

A return of an empty string, @nil, or no value signals the end of the chunk.

If there are no syntactic errors,

@id{load} returns the compiled chunk as a function;

otherwise, it returns @fail plus the error message.

When you load a main chunk,

the resulting function will always have exactly one upvalue,

the @id{\_ENV} variable @see{globalenv}.

However,

when you load a binary chunk created from a function @seeF{string.dump},

the resulting function can have an arbitrary number of upvalues,

and there is no guarantee that its first upvalue will be

the @id{\_ENV} variable.

(A non-main function may not even have an @id{\_ENV} upvalue.)

Regardless, if the resulting function has any upvalues,

its first upvalue is set to the value of @id{env},

if that parameter is given,

or to the value of the @x{global environment}.

Other upvalues are initialized with @nil.

All upvalues are fresh, that is,

they are not shared with any other function.

@id{chunkname} is used as the name of the chunk for error messages  
and debug information @see{debugI}.

When absent,

it defaults to @id{chunk}, if @id{chunk} is a string,

or to @St{=(load)} otherwise.

The string @id{mode} controls whether the chunk can be text or binary

(that is, a precompiled chunk).

It may be the string `@St{b}` (only `@x{binary chunk}s`),  
`@St{t}` (only text chunks),  
or `@St{bt}` (both binary and text).  
The default is `@St{bt}`.

It is safe to load malformed binary chunks;  
`@id{load}` signals an appropriate error.  
However,  
Lua does not check the consistency of the code inside binary chunks;  
running maliciously crafted bytecode can crash the interpreter.

}

`@LibEntry{loadfile ([filename [, mode [, env]])}`

Similar to `@Lid{load}`,  
but gets the chunk from file `@id{filename}`  
or from the standard input,  
if no file name is given.

}

`@LibEntry{next (table [, index])}`

Allows a program to traverse all fields of a table.  
Its first argument is a table and its second argument  
is an index in this table.  
A call to `@id{next}` returns the next index of the table  
and its associated value.  
When called with `@nil` as its second argument,  
`@id{next}` returns an initial index  
and its associated value.  
When called with the last index,  
or with `@nil` in an empty table,  
`@id{next}` returns `@nil`.  
If the second argument is absent, then it is interpreted as `@nil`.  
In particular,  
you can use `@T{next(t)}` to check whether a table is empty.

The order in which the indices are enumerated is not specified,  
`@emph{even for numeric indices}`.  
(To traverse a table in numerical order,  
use a numerical `@Rw{for}`.)

You should not assign any value to a non-existent field in a table  
during its traversal.

You may however modify existing fields.

In particular, you may set existing fields to `nil`.

```
}
```

```
@LibEntry{pairs (t)|
```

If `@id{t}` has a metamethod `@idx{__pairs}`,  
calls it with `@id{t}` as argument and returns the first three  
results from the call.

Otherwise,  
returns three values: the `@Lid{next}` function, the table `@id{t}`, and `@nil`,  
so that the construction

```
@verbatim{  
for k,v in pairs(t) do @rep{body} end  
}
```

will iterate over all key@En{ }value pairs of table `@id{t}`.

See function `@Lid{next}` for the caveats of modifying  
the table during its traversal.

```
}
```

```
@LibEntry{pcall (f [, arg1, @Cdots])|
```

Calls the function `@id{f}` with  
the given arguments in `@emphx{protected mode}`.  
This means that any error `@N{inside @T{f}}` is not propagated;  
instead, `@id{pcall}` catches the error  
and returns a status code.

Its first result is the status code (a boolean),  
which is `@true` if the call succeeds without errors.

In such case, `@id{pcall}` also returns all results from the call,  
after this first result.

In case of any error, `@id{pcall}` returns `@false` plus the error object.  
Note that errors caught by `@id{pcall}` do not call a message handler.

```
}
```

```
@LibEntry{print (@Cdots)|
```

Receives any number of arguments  
and prints their values to `@id{stdout}`,  
converting each argument to a string  
following the same rules of `@Lid{tostring}`.

The function `@id{print}` is not intended for formatted output,  
but only as a quick way to show a value,  
for instance for debugging.

For complete control over the output,

use @Lid{string.format} and @Lid{io.write}.

}

@LibEntry{rawequal (v1, v2)|  
Checks whether @id{v1} is equal to @id{v2},  
without invoking the @idx{\_\_eq} metamethod.  
Returns a boolean.

}

@LibEntry{rawget (table, index)|  
Gets the real value of @T{table[index]},  
without using the @idx{\_\_index} metavalues.  
@id{table} must be a table;  
@id{index} may be any value.

}

@LibEntry{rawlen (v)|  
Returns the length of the object @id{v},  
which must be a table or a string,  
without invoking the @idx{\_\_len} metamethod.  
Returns an integer.

}

@LibEntry{rawset (table, index, value)|  
Sets the real value of @T{table[index]} to @id{value},  
without using the @idx{\_\_newindex} metavalues.  
@id{table} must be a table,  
@id{index} any value different from @nil and @x{NaN},  
and @id{value} any Lua value.

This function returns @id{table}.

}

@LibEntry{select (index, @Cdots)|

If @id{index} is a number,  
returns all arguments after argument number @id{index};  
a negative number indexes from the end (@num{-1} is the last argument).  
Otherwise, @id{index} must be the string @T{"#"},  
and @id{select} returns the total number of extra arguments it received.

}

@LibEntry{setmetatable (table, metatable)}

Sets the metatable for the given table.

If @id{metatable} is @nil,

removes the metatable of the given table.

If the original metatable has a @idx{\_\_metatable} field,

raises an error.

This function returns @id{table}.

To change the metatable of other types from Lua code,

you must use the @link{debuglib|debug library}.

}

@LibEntry{tonumber (e [, base])}

When called with no @id{base},

@id{tonumber} tries to convert its argument to a number.

If the argument is already a number or

a string convertible to a number,

then @id{tonumber} returns this number;

otherwise, it returns @fail.

The conversion of strings can result in integers or floats,

according to the lexical conventions of Lua @see{lexical}.

The string may have leading and trailing spaces and a sign.

When called with @id{base},

then @id{e} must be a string to be interpreted as

an integer numeral in that base.

The base may be any integer between 2 and 36, inclusive.

In bases @N{above 10}, the letter @Char{A} (in either upper or lower case)

@N{represents 10}, @Char{B} @N{represents 11}, and so forth,

with @Char{Z} representing 35.

If the string @id{e} is not a valid numeral in the given base,

the function returns @fail.

}

@LibEntry{tostring (v)}

Receives a value of any type and

converts it to a string in a human-readable format.

If the metatable of @id{v} has a @idx{\_\_tostring} field,

then @id{tostring} calls the corresponding value

with @id{v} as argument,

and uses the result of the call as its result.

Otherwise, if the metatable of `@id{v}` has a `@idx{__name}` field with a string value,

`@id{tostring}` may use that string in its final result.

For complete control of how numbers are converted, use `@Lid{string.format}`.

}

`@LibEntry{type (v)}`

Returns the type of its only argument, coded as a string.

The possible results of this function are

`@St{nil}` (a string, not the value `@nil`),

`@St{number}`,

`@St{string}`,

`@St{boolean}`,

`@St{table}`,

`@St{function}`,

`@St{thread}`,

and `@St{userdata}`.

}

`@LibEntry{_VERSION}`

A global variable (not a function) that

holds a string containing the running Lua version.

The current value of this variable is `@St{Lua 5.4}`.

}

`@LibEntry{warn (msg1, @Cdots)}`

Emits a warning with a message composed by the concatenation of all its arguments (which should be strings).

By convention,

a one-piece message starting with `@Char{@At}`

is intended to be a `@emph{control message}`,

which is a message to the warning system itself.

In particular, the standard warning function in Lua

recognizes the control messages `@St{@At}{off}`,

to stop the emission of warnings,

and `@St{@At}{on}`, to (re)start the emission;

it ignores unknown control messages.



}

@LibEntry{xpcall (f, msg [, arg1, @Cdots)]}

This function is similar to @Lid{pcall},  
except that it sets a new @x{message handler} @id{msgh}.

}

}

@sect2{corolib| @title{Coroutine Manipulation}}

This library comprises the operations to manipulate coroutines,  
which come inside the table @defid{coroutine}.  
See @See{coroutine} for a general description of coroutines.

@LibEntry{coroutine.close (co)}

Closes coroutine @id{co},  
that is,  
closes all its pending to-be-closed variables  
and puts the coroutine in a dead state.  
The given coroutine must be dead or suspended.  
In case of error  
(either the original error that stopped the coroutine or  
errors in closing methods),  
returns @false plus the error object;  
otherwise returns @true.

}

@LibEntry{coroutine.create (f)}

Creates a new coroutine, with body @id{f}.  
@id{f} must be a function.  
Returns this new coroutine,  
an object with type @T{"thread"}.

}

@LibEntry{coroutine.isyieldable ([co])}

Returns @true when the coroutine @id{co} can yield.  
The default for @id{co} is the running coroutine.

A coroutine is yieldable if it is not the main thread and

it is not inside a non-yieldable @N{C function}.

}

@LibEntry{coroutine.resume (co [, val1, @Cdots])|

Starts or continues the execution of coroutine @id{co}.

The first time you resume a coroutine,  
it starts running its body.

The values @id{val1}, @ldots are passed  
as the arguments to the body function.

If the coroutine has yielded,

@id{resume} restarts it;

the values @id{val1}, @ldots are passed  
as the results from the yield.

If the coroutine runs without any errors,

@id{resume} returns @true plus any values passed to @id{yield}

(when the coroutine yields) or any values returned by the body function  
(when the coroutine terminates).

If there is any error,

@id{resume} returns @false plus the error message.

}

@LibEntry{coroutine.running ()|

Returns the running coroutine plus a boolean,

@true when the running coroutine is the main one.

}

@LibEntry{coroutine.status (co)|

Returns the status of the coroutine @id{co}, as a string:

@T{"running"},

if the coroutine is running

(that is, it is the one that called @id{status});

@T{"suspended"}, if the coroutine is suspended in a call to @id{yield},

or if it has not started running yet;

@T{"normal"} if the coroutine is active but not running

(that is, it has resumed another coroutine);

and @T{"dead"} if the coroutine has finished its body function,

or if it has stopped with an error.

}

@LibEntry{coroutine.wrap (f)|

Creates a new coroutine, with body @id{f};  
@id{f} must be a function.  
Returns a function that resumes the coroutine each time it is called.  
Any arguments passed to this function behave as the  
extra arguments to @id{resume}.  
The function returns the same values returned by @id{resume},  
except the first boolean.  
In case of error,  
the function closes the coroutine and propagates the error.

}

@LibEntry{coroutine.yield (@Cdots)|

Suspends the execution of the calling coroutine.  
Any arguments to @id{yield} are passed as extra results to @id{resume}.

}

}

@sect2{packlib| @title{Modules}}

The package library provides basic  
facilities for loading modules in Lua.  
It exports one function directly in the global environment:  
@Lid{require}.  
Everything else is exported in the table @defid{package}.

@LibEntry{require (modname)|

Loads the given module.  
The function starts by looking into the @Lid{package.loaded} table  
to determine whether @id{modname} is already loaded.  
If it is, then @id{require} returns the value stored  
at @T{package.loaded[modname]}.  
(The absence of a second result in this case  
signals that this call did not have to load the module.)  
Otherwise, it tries to find a @emph{loader} for the module.

To find a loader,  
@id{require} is guided by the table @Lid{package.searchers}.  
Each item in this table is a search function,  
that searches for the module in a particular way.  
By changing this table,  
we can change how @id{require} looks for a module.

The following explanation is based on the default configuration for `@Lid{package.searchers}`.

First `@id{require}` queries `@T{package.preload[modname]}`.

If it has a value,

this value (which must be a function) is the loader.

Otherwise `@id{require}` searches for a Lua loader using the path stored in `@Lid{package.path}`.

If that also fails, it searches for a `@N{C loader}` using the path stored in `@Lid{package.cpath}`.

If that also fails,

it tries an `@emph{all-in-one}` loader `@seeF{package.searchers}`.

Once a loader is found,

`@id{require}` calls the loader with two arguments:

`@id{modname}` and an extra value,

a `@emph{loader data}`,

also returned by the searcher.

The loader data can be any value useful to the module;

for the default searchers,

it indicates where the loader was found.

(For instance, if the loader came from a file,

this extra value is the file path.)

If the loader returns any non-nil value,

`@id{require}` assigns the returned value to `@T{package.loaded[modname]}`.

If the loader does not return a non-nil value and

has not assigned any value to `@T{package.loaded[modname]}`,

then `@id{require}` assigns `@true` to this entry.

In any case, `@id{require}` returns the

final value of `@T{package.loaded[modname]}`.

Besides that value, `@id{require}` also returns as a second result

the loader data returned by the searcher,

which indicates how `@id{require}` found the module.

If there is any error loading or running the module,

or if it cannot find any loader for the module,

then `@id{require}` raises an error.

}

`@LibEntry{package.config|`

A string describing some compile-time configurations for packages.

This string is a sequence of lines:

`@itemize{`

`@item{The first line is the @x{directory separator} string.`

Default is `@Char{\}` for `@x{Windows}` and `@Char{/}` for all other systems.}

@item{The second line is the character that separates templates in a path.

Default is @Char{;}.

@item{The third line is the string that marks the substitution points in a template.

Default is @Char{?}.

@item{The fourth line is a string that, in a path in @x{Windows}, is replaced by the executable's directory.

Default is @Char{!}.

@item{The fifth line is a mark to ignore all text after it when building the @id{luaopen\_} function name.

Default is @Char{-}.

}

}

@LibEntry{package.cpath|

A string with the path used by @Lid{require} to search for a @N{C loader}.

Lua initializes the @N{C path} @Lid{package.cpath} in the same way it initializes the Lua path @Lid{package.path}, using the environment variable @defid{LUA\_CPATH\_5\_4}, or the environment variable @defid{LUA\_CPATH}, or a default path defined in @id{luaconf.h}.

}

@LibEntry{package.loaded|

A table used by @Lid{require} to control which modules are already loaded.

When you require a module @id{modname} and @T{package.loaded[modname]} is not false, @Lid{require} simply returns the value stored there.

This variable is only a reference to the real table; assignments to this variable do not change the table used by @Lid{require}.

}

@LibEntry{package.loadlib (libname, funcname)|

Dynamically links the host program with the @N{C library} @id{libname}.

If @id{funcname} is @St{\*},  
then it only links with the library,  
making the symbols exported by the library  
available to other dynamically linked libraries.

Otherwise,  
it looks for a function @id{funcname} inside the library  
and returns this function as a @N{C function}.  
So, @id{funcname} must follow the @Lid{lua\_CFunction} prototype  
@seeC{lua\_CFunction}.

This is a low-level function.  
It completely bypasses the package and module system.  
Unlike @Lid{require},  
it does not perform any path searching and  
does not automatically adds extensions.  
@id{libname} must be the complete file name of the @N{C library},  
including if necessary a path and an extension.  
@id{funcname} must be the exact name exported by the @N{C library}  
(which may depend on the @N{C compiler} and linker used).

This function is not supported by @N{Standard C}.  
As such, it is only available on some platforms  
(Windows, Linux, Mac OS X, Solaris, BSD,  
plus other Unix systems that support the @id{dlfcn} standard).

This function is inherently insecure,  
as it allows Lua to call any function in any readable dynamic  
library in the system.  
(Lua calls any function assuming the function  
has a proper prototype and respects a proper protocol  
@see{lua\_CFunction}).  
Therefore,  
calling an arbitrary function in an arbitrary dynamic library  
more often than not results in an access violation.)

}

@LibEntry{package.path|

A string with the path used by @Lid{require}  
to search for a Lua loader.

At start-up, Lua initializes this variable with  
the value of the environment variable @defid{LUA\_PATH\_5\_4} or  
the environment variable @defid{LUA\_PATH} or

with a default path defined in `@id{luaconf.h}`,  
if those environment variables are not defined.  
A `@St{;;}` in the value of the environment variable  
is replaced by the default path.

}

`@LibEntry{package.preload|`

A table to store loaders for specific modules  
`@seeF{require}`.

This variable is only a reference to the real table;  
assignments to this variable do not change the  
table used by `@Lid{require}`.

}

`@LibEntry{package.searchers|`

A table used by `@Lid{require}` to control how to find modules.

Each entry in this table is a `@def{searcher function}`.

When looking for a module,

`@Lid{require}` calls each of these searchers in ascending order,  
with the module name (the argument given to `@Lid{require}`) as its  
sole argument.

If the searcher finds the module,

it returns another function, the module `@def{loader}`,  
plus an extra value, a `@emph{loader data}`,  
that will be passed to that loader and  
returned as a second result by `@Lid{require}`.

If it cannot find the module,

it returns a string explaining why  
(or `@nil` if it has nothing to say).

Lua initializes this table with four searcher functions.

The first searcher simply looks for a loader in the  
`@Lid{package.preload}` table.

The second searcher looks for a loader as a Lua library,  
using the path stored at `@Lid{package.path}`.

The search is done as described in function `@Lid{package.searchpath}`.

The third searcher looks for a loader as a `@N{C library}`,  
using the path given by the variable `@Lid{package.cpath}`.

Again,

the search is done as described in function `@Lid{package.searchpath}`.

For instance,

if the `@N{C path}` is the string

```
@verbatim{
"/?.so;?.dll;/usr/local/?/init.so"
}
```

the searcher for module `@id{foo}`

will try to open the files `@T{./foo.so}`, `@T{./foo.dll}`,

and `@T{/usr/local/foo/init.so}`, in that order.

Once it finds a `@N{C library}`,

this searcher first uses a dynamic link facility to link the application with the library.

Then it tries to find a `@N{C function}` inside the library to be used as the loader.

The name of this `@N{C function}` is the string `@St{luaopen_}` concatenated with a copy of the module name where each dot is replaced by an underscore.

Moreover, if the module name has a hyphen,

its suffix after (and including) the first hyphen is removed.

For instance, if the module name is `@id{a.b.c-v2.1}`,

the function name will be `@id{luaopen_a_b_c}`.

The fourth searcher tries an `@def{all-in-one loader}`.

It searches the `@N{C path}` for a library for

the root name of the given module.

For instance, when requiring `@id{a.b.c}`,

it will search for a `@N{C library}` for `@id{a}`.

If found, it looks into it for an open function for the submodule;

in our example, that would be `@id{luaopen_a_b_c}`.

With this facility, a package can pack several `@N{C submodules}` into one single library,

with each submodule keeping its original open function.

All searchers except the first one (preload) return as the extra value

the file path where the module was found,

as returned by `@Lid{package.searchpath}`.

The first searcher always returns the string `@St{:preload:}`.

Searchers should raise no errors and have no side effects in Lua.

(They may have side effects in C,

for instance by linking the application with a library.)

```
}
```

```
@LibEntry{package.searchpath (name, path [, sep [, rep]])}
```

Searches for the given `@id{name}` in the given `@id{path}`.



A path is a string containing a sequence of `@emph{templates}` separated by semicolons. For each template, the function replaces each interrogation mark (if any) in the template with a copy of `@id{name}` wherein all occurrences of `@id{sep}` (a dot, by default) were replaced by `@id{rep}` (the system's directory separator, by default), and then tries to open the resulting file name.

For instance, if the path is the string

```
@verbatim{
"/?.lua;/?..lc;/usr/local/?/init.lua"
}
```

the search for the name `@id{foo.a}` will try to open the files `@T{./foo/a.lua}`, `@T{./foo/a.lc}`, and `@T{/usr/local/foo/a/init.lua}`, in that order.

Returns the resulting name of the first file that it can open in read mode (after closing the file), or `@fail` plus an error message if none succeeds. (This error message lists all file names it tried to open.)

```
}
}
```

`@sect2{strlib| @title{String Manipulation}`

`@simplesect{`

This library provides generic functions for string manipulation, such as finding and extracting substrings, and pattern matching. When indexing a string in Lua, the first character is at `@N{position 1}` (not `@N{at 0}`, as in C). Indices are allowed to be negative and are interpreted as indexing backwards, from the end of the string. Thus, the last character is at position `@num{-1}`, and so on.

The string library provides all its functions inside the table `@defid{string}`.

It also sets a `@x{metatable for strings}` where the `@idx{__index}` field points to the `@id{string}` table. Therefore, you can use the string functions in object-oriented style. For instance, `@T{string.byte(s,i)}`

can be written as `@T{s:byte(i)}`.

The string library assumes one-byte character encodings.

`@LibEntry{string.byte (s [, i [, j]])}`

Returns the internal numeric codes of the characters `@T{s[i]}`,  
`@T{s[i+1]}`, `@ldots`, `@T{s[j]}`.

The default value for `@id{i}` `@N{is 1}`;

the default value for `@id{j}` `@N{is @id{i}}`.

These indices are corrected

following the same rules of function `@Lid{string.sub}`.

Numeric codes are not necessarily portable across platforms.

}

`@LibEntry{string.char (@Cdots)}`

Receives zero or more integers.

Returns a string with length equal to the number of arguments,  
in which each character has the internal numeric code equal  
to its corresponding argument.

Numeric codes are not necessarily portable across platforms.

}

`@LibEntry{string.dump (function [, strip])}`

Returns a string containing a binary representation

(a `@emph{binary chunk}`)

of the given function,

so that a later `@Lid{load}` on this string returns

a copy of the function (but with new upvalues).

If `@id{strip}` is a true value,

the binary representation may not include all debug information  
about the function,

to save space.

Functions with upvalues have only their number of upvalues saved.

When (re)loaded,

those upvalues receive fresh instances.

(See the `@Lid{load}` function for details about

how these upvalues are initialized.

You can use the debug library to serialize

and reload the upvalues of a function

in a way adequate to your needs.)

}

@LibEntry{string.find (s, pattern [, init [, plain]])}

Looks for the first match of

@id{pattern} @see{pm} in the string @id{s}.

If it finds a match, then @id{find} returns the indices @N{of @T{s}}

where this occurrence starts and ends;

otherwise, it returns @fail.

A third, optional numeric argument @id{init} specifies

where to start the search;

its default value @N{is 1} and can be negative.

A @true as a fourth, optional argument @id{plain}

turns off the pattern matching facilities,

so the function does a plain @Q{find substring} operation,

with no characters in @id{pattern} being considered magic.

If the pattern has captures,

then in a successful match

the captured values are also returned,

after the two indices.

}

@LibEntry{string.format (formatstring, @Cdots)}

Returns a formatted version of its variable number of arguments

following the description given in its first argument,

which must be a string.

The format string follows the same rules as the @ANSI{sprintf}.

The only differences are that the conversion specifiers and modifiers

@id{F}, @id{n}, @T{\*}, @id{h}, @id{L}, and @id{l} are not supported

and that there is an extra specifier, @id{q}.

Both width and precision, when present,

are limited to two digits.

The specifier @id{q} formats booleans, nil, numbers, and strings

in a way that the result is a valid constant in Lua source code.

Booleans and nil are written in the obvious way

(@id{true}, @id{false}, @id{nil}).

Floats are written in hexadecimal,

to preserve full precision.

A string is written between double quotes,

using escape sequences when necessary to ensure that

it can safely be read back by the Lua interpreter.

For instance, the call

@verbatim{

string.format('%q', 'a string with "quotes" and \n new line')

```
}
```

may produce the string:

```
@verbatim{  
"a string with \"quotes\" and \  
new line"  
}
```

This specifier does not support modifiers (flags, width, precision).

The conversion specifiers

```
@id{A}, @id{a}, @id{E}, @id{e}, @id{f},  
@id{G}, and @id{g} all expect a number as argument.
```

The specifiers @id{c}, @id{d},

```
@id{i}, @id{o}, @id{u}, @id{X}, and @id{x}  
expect an integer.
```

When Lua is compiled with a C89 compiler,  
the specifiers @id{A} and @id{a} (hexadecimal floats)  
do not support modifiers.

The specifier @id{s} expects a string;

if its argument is not a string,

it is converted to one following the same rules of @Lid{tostring}.

If the specifier has any modifier,

the corresponding string argument should not contain @x{embedded zeros}.

The specifier @id{p} formats the pointer  
returned by @Lid{lua\_topointer}.

That gives a unique string identifier for tables, userdata,  
threads, strings, and functions.

For other values (numbers, nil, booleans),  
this specifier results in a string representing  
the pointer @id{NULL}.

```
}
```

```
@LibEntry{string.gmatch (s, pattern [, init])}
```

Returns an iterator function that,

each time it is called,

returns the next captures from @id{pattern} @see{pm}  
over the string @id{s}.

If @id{pattern} specifies no captures,

then the whole match is produced in each call.

A third, optional numeric argument @id{init} specifies  
where to start the search;

its default value @N{is 1} and can be negative.

As an example, the following loop

will iterate over all the words from string @id{s},

printing one per line:

```
@verbatim{
s = "hello world from Lua"
for w in string.gmatch(s, "%a+") do
  print(w)
end
}
```

The next example collects all pairs `@T{key=value}` from the given string into a table:

```
@verbatim{
t = {}
s = "from=world, to=Lua"
for k, v in string.gmatch(s, "(%w+)=(%w+)") do
  t[k] = v
end
}
```

For this function, a caret `@Char{^}` at the start of a pattern does not work as an anchor, as this would prevent the iteration.

```
}
```

```
@LibEntry{string.gsub (s, pattern, repl [, n])}
```

Returns a copy of `@id{s}`

in which all (or the first `@id{n}`, if given)

occurrences of the `@id{pattern}` `@see{pm}` have been replaced by a replacement string specified by `@id{repl}`, which can be a string, a table, or a function.

`@id{gsub}` also returns, as its second value, the total number of matches that occurred.

The name `@id{gsub}` comes from `@emph{Global SUBstitution}`.

If `@id{repl}` is a string, then its value is used for replacement.

The `@N{character @T{%%}}` works as an escape character:

any sequence in `@id{repl}` of the form `@T{%%@rep{d}}`,

with `@rep{d}` between 1 and 9,

stands for the value of the `@rep{d}`-th captured substring;

the sequence `@T{%0}` stands for the whole match;

the sequence `@T{%%}` stands for a `@N{single @T{%%}}`.

If `@id{repl}` is a table, then the table is queried for every match, using the first capture as the key.

If `@id{repl}` is a function, then this function is called every time a match occurs, with all captured substrings passed as arguments, in order.

In any case,

if the pattern specifies no captures,

then it behaves as if the whole pattern was inside a capture.

If the value returned by the table query or by the function call is a string or a number, then it is used as the replacement string; otherwise, if it is `@Rw{false}` or `@nil`, then there is no replacement (that is, the original match is kept in the string).

Here are some examples:

```
@verbatim{
```

```
x = string.gsub("hello world", "(%w+)", "%1 %1")
--> x="hello hello world world"
```

```
x = string.gsub("hello world", "%w+", "%0 %0", 1)
--> x="hello hello world"
```

```
x = string.gsub("hello world from Lua", "(%w+)s*(%w+)", "%2 %1")
--> x="world hello Lua from"
```

```
x = string.gsub("home = $HOME, user = $USER", "%$(%w+)", os.getenv)
--> x="home = /home/roberto, user = roberto"
```

```
x = string.gsub("4+5 = $return 4+5$", "%$(.)%$", function (s)
    return load(s)()
end)
--> x="4+5 = 9"
```

```
local t = {name="lua", version="5.4"}
x = string.gsub("$name-$version.tar.gz", "%$(%w+)", t)
--> x="lua-5.4.tar.gz"
}

}
```

```
@LibEntry{string.len (s)|
```

Receives a string and returns its length.  
The empty string `@T{""}` has length 0.  
Embedded zeros are counted,  
so `@T{"a\000bc\000"}` has length 5.

```
}
```

```
@LibEntry{string.lower (s)|
```

Receives a string and returns a copy of this string with all uppercase letters changed to lowercase.

All other characters are left unchanged.

The definition of what an uppercase letter is depends on the current locale.

}

@LibEntry{string.match (s, pattern [, init])}

Looks for the first @emph{match} of the @id{pattern} @see{pm} in the string @id{s}.

If it finds one, then @id{match} returns the captures from the pattern;

otherwise it returns @fail.

If @id{pattern} specifies no captures, then the whole match is returned.

A third, optional numeric argument @id{init} specifies where to start the search; its default value @N{is 1} and can be negative.

}

@LibEntry{string.pack (fmt, v1, v2, @Cdots)}

Returns a binary string containing the values @id{v1}, @id{v2}, etc.

serialized in binary form (packed)

according to the format string @id{fmt} @see{pack}.

}

@LibEntry{string.packsize (fmt)}

Returns the size of a string resulting from @Lid{string.pack} with the given format.

The format string cannot have the variable-length options

@Char{s} or @Char{z} @see{pack}.

}

@LibEntry{string.rep (s, n [, sep])}

Returns a string that is the concatenation of @id{n} copies of the string @id{s} separated by the string @id{sep}.

The default value for @id{sep} is the empty string (that is, no separator).

Returns the empty string if @id{n} is not positive.

(Note that it is very easy to exhaust the memory of your machine with a single call to this function.)

}

@LibEntry{string.reverse (s)|

Returns a string that is the string @id{s} reversed.

}

@LibEntry{string.sub (s, i [, j])|

Returns the substring of @id{s} that starts at @id{i} and continues until @id{j};

@id{i} and @id{j} can be negative.

If @id{j} is absent, then it is assumed to be equal to @num{-1} (which is the same as the string length).

In particular,

the call @T{string.sub(s,1,j)} returns a prefix of @id{s} with length @id{j},

and @T{string.sub(s, -i)} (for a positive @id{i}) returns a suffix of @id{s} with length @id{i}.

If, after the translation of negative indices,

@id{i} is less than 1,

it is corrected to 1.

If @id{j} is greater than the string length,

it is corrected to that length.

If, after these corrections,

@id{i} is greater than @id{j},

the function returns the empty string.

}

@LibEntry{string.unpack (fmt, s [, pos])|

Returns the values packed in string @id{s} @seeF{string.pack} according to the format string @id{fmt} @see{pack}.

An optional @id{pos} marks where to start reading in @id{s} (default is 1).

After the read values,

this function also returns the index of the first unread byte in @id{s}.

}

@LibEntry{string.upper (s)|

Receives a string and returns a copy of this string with all lowercase letters changed to uppercase.



All other characters are left unchanged.

The definition of what a lowercase letter is depends on the current locale.

}

}

@sect3{pm| @title{Patterns }

@simplesect{

Patterns in Lua are described by regular strings,  
which are interpreted as patterns by the pattern-matching functions

@Lid{string.find},

@Lid{string.gmatch},

@Lid{string.gsub},

and @Lid{string.match}.

This section describes the syntax and the meaning  
(that is, what they match) of these strings.

}

@sect4{ @title{Character Class: }

A @def{character class} is used to represent a set of characters.

The following combinations are allowed in describing a character class:

@description{

@item{ @rep{x} |

(where @rep{x} is not one of the @emph{x} magic characters)

@T{^\$()%.[]\*+-.?})

represents the character @emph{x} itself.

}

@item{ @T{.} | (a dot) represents all characters. }

@item{ @T{%a} | represents all letters. }

@item{ @T{%c} | represents all control characters. }

@item{ @T{%d} | represents all digits. }

@item{ @T{%g} | represents all printable characters except space. }

@item{ @T{%l} | represents all lowercase letters. }

@item{ @T{%p} | represents all punctuation characters. }

@item{ @T{%s}| represents all space characters. }

@item{ @T{%u}| represents all uppercase letters. }

@item{ @T{%w}| represents all alphanumeric characters. }

@item{ @T{%x}| represents all hexadecimal digits. }

@item{ @T{%@rep{x}}| (where @rep{x} is any non-alphanumeric character)  
represents the character @rep{x}.

This is the standard way to escape the magic characters.

Any non-alphanumeric character

(including all punctuation characters, even the non-magical)

can be preceded by a @Char{%} to represent itself in a pattern.

}

@item{ @T{[@rep{set}]}|

represents the class which is the union of all  
characters in @rep{set}.

A range of characters can be specified by  
separating the end characters of the range,  
in ascending order, with a @Char{-}.

All classes @T{%}@emph{x} described above can also be used as  
components in @rep{set}.

All other characters in @rep{set} represent themselves.

For example, @T{[%w\_]} (or @T{[\_%w]})

represents all alphanumeric characters plus the underscore,

@T{[0-7]} represents the octal digits,

and @T{[0-7!%-]} represents the octal digits plus  
the lowercase letters plus the @Char{-} character.

You can put a closing square bracket in a set  
by positioning it as the first character in the set.

You can put a hyphen in a set

by positioning it as the first or the last character in the set.

(You can also use an escape for both cases.)

The interaction between ranges and classes is not defined.

Therefore, patterns like @T{[%a-z]} or @T{[a-%]}

have no meaning.

}

@item{ @T{[^@rep{set}]}|

represents the complement of @rep{set},

where @rep{set} is interpreted as above.

}

}

For all classes represented by single letters (@T{%a}, @T{%c}, etc.), the corresponding uppercase letter represents the complement of the class. For instance, @T{%S} represents all non-space characters.

The definitions of letter, space, and other character groups depend on the current locale.

In particular, the class @T{[a-z]} may not be equivalent to @T{%l}.

}

@sect4{ @title{Pattern Item:}

A @def{pattern item} can be

@itemize{

@item{

a single character class,

which matches any single character in the class;

}

@item{

a single character class followed by @Char{\*},

which matches sequences of zero or more characters in the class.

These repetition items will always match the longest possible sequence;

}

@item{

a single character class followed by @Char{+},

which matches sequences of one or more characters in the class.

These repetition items will always match the longest possible sequence;

}

@item{

a single character class followed by @Char{-},

which also matches sequences of zero or more characters in the class.

Unlike @Char{\*},

these repetition items will always match the shortest possible sequence;

}

@item{

a single character class followed by @Char{?},

which matches zero or one occurrence of a character in the class.

It always matches one occurrence if possible;

}

@item{

@T{%@rep{n}}, for @rep{n} between 1 and 9;

such item matches a substring equal to the @rep{n}-th captured string

(see below);

}

@item{

@T{%b@rep{xy}}, where @rep{x} and @rep{y} are two distinct characters;  
such item matches strings that start @N{with @rep{x}}, end @N{with @rep{y}},  
and where the @rep{x} and @rep{y} are @emph{balanced}.

This means that, if one reads the string from left to right,  
counting @M{+1} for an @rep{x} and @M{-1} for a @rep{y},  
the ending @rep{y} is the first @rep{y} where the count reaches 0.

For instance, the item @T{%b()} matches expressions with  
balanced parentheses.

}

@item{

@T{%f[@rep{set}]}, a @def{frontier pattern};

such item matches an empty string at any position such that  
the next character belongs to @rep{set}

and the previous character does not belong to @rep{set}.

The set @rep{set} is interpreted as previously described.

The beginning and the end of the subject are handled as if  
they were the character @Char{\0}.

}

}

}

@sect4{ @title{Pattern: }

A @def{pattern} is a sequence of pattern items.

A caret @Char{^} at the beginning of a pattern anchors the match at the  
beginning of the subject string.

A @Char{\$} at the end of a pattern anchors the match at the  
end of the subject string.

At other positions,

@Char{^} and @Char{\$} have no special meaning and represent themselves.

}

@sect4{ @title{Captures: }

A pattern can contain sub-patterns enclosed in parentheses;  
they describe @def{captures}.

When a match succeeds, the substrings of the subject string  
that match captures are stored (@emph{captured}) for future use.

Captures are numbered according to their left parentheses.

For instance, in the pattern @T{"a\*(.)%w(%s\*)"},

the part of the string matching @T{"a\*(.)%w(%s\*)"} is

stored as the first capture, and therefore has @N{number 1};

the character matching @St{.} is captured with @N{number 2},

and the part matching `@St{%s*}` has `@N{number 3}`.

As a special case, the capture `@T{}` captures the current string position (a number).

For instance, if we apply the pattern `@T{`()aa()'}` on the string `@T{"flaaap"}`, there will be two captures: `@N{3 and 5}`.

}

`@sect4{ @title{Multiple matches:}`

The function `@Lid{string.gsub}` and the iterator `@Lid{string.gmatch}` match multiple occurrences of the given pattern in the subject.

For these functions,

a new match is considered valid only

if it ends at least one byte after the end of the previous match.

In other words, the pattern machine never accepts the empty string as a match immediately after another match.

As an example,

consider the results of the following code:

`@verbatim{`

`> string.gsub("abc", "()a*()", print);`

`--> 1 2`

`--> 3 3`

`--> 4 4`

`}`

The second and third results come from Lua matching an empty string after `@Char{b}` and another one after `@Char{c}`.

Lua does not match an empty string after `@Char{a}`, because it would end at the same position of the previous match.

}

}

`@sect3{pack| @title{Format Strings for Pack and Unpack}`

The first argument to `@Lid{string.pack}`,

`@Lid{string.packsize}`, and `@Lid{string.unpack}`

is a format string,

which describes the layout of the structure being created or read.

A format string is a sequence of conversion options.

The conversion options are as follows:

`@description{`

`@item{ @T{<}|sets little endian}`

`@item{ @T{>}|sets big endian}`

`@item{ @T{=}|sets native endian}`

`@item{ @T{![@rep{n}]}|sets maximum alignment to @id{n}`

```

(default is native alignment)
@item{ @T{b}|a signed byte (@id{char})}
@item{ @T{B}|an unsigned byte (@id{char})}
@item{ @T{h}|a signed @id{short} (native size)}
@item{ @T{H}|an unsigned @id{short} (native size)}
@item{ @T{l}|a signed @id{long} (native size)}
@item{ @T{L}|an unsigned @id{long} (native size)}
@item{ @T{j}|a @id{lua_Integer}}
@item{ @T{J}|a @id{lua_Unsigned}}
@item{ @T{T}|a @id{size_t} (native size)}
@item{ @T{i[@rep{n}]}|a signed @id{int} with @id{n} bytes
(default is native size)}
@item{ @T{I[@rep{n}]}|an unsigned @id{int} with @id{n} bytes
(default is native size)}
@item{ @T{f}|a @id{float} (native size)}
@item{ @T{d}|a @id{double} (native size)}
@item{ @T{n}|a @id{lua_Number}}
@item{ @T{c@rep{n}}|a fixed-sized string with @id{n} bytes}
@item{ @T{z}|a zero-terminated string}
@item{ @T{s[@emph{n}]}|a string preceded by its length
coded as an unsigned integer with @id{n} bytes
(default is a @id{size_t})}
@item{ @T{x}|one byte of padding}
@item{ @T{X@rep{op}}|an empty item that aligns
according to option @id{op}
(which is otherwise ignored)}
@item{ @Char{ }|(space) ignored}
}

```

(A @St{[@rep{n}]} means an optional integral numeral.)

Except for padding, spaces, and configurations

(options @St{xX <=>!}),

each option corresponds to an argument in @Lid{string.pack}

or a result in @Lid{string.unpack}.

For options @St{!@rep{n}}, @St{s@rep{n}}, @St{i@rep{n}}, and @St{I@rep{n}},

@id{n} can be any integer between 1 and 16.

All integral options check overflows;

@Lid{string.pack} checks whether the given value fits in the given size;

@Lid{string.unpack} checks whether the read value fits in a Lua integer.

For the unsigned options,

Lua integers are treated as unsigned values too.

Any format string starts as if prefixed by @St{!1=},

that is,

with maximum alignment of 1 (no alignment)

and native endianness.

Native endianness assumes that the whole system is

either big or little endian.

The packing functions will not emulate correctly the behavior of mixed-endian formats.

Alignment works as follows:

For each option,

the format gets extra padding until the data starts at an offset that is a multiple of the minimum between the option size and the maximum alignment; this minimum must be a power of 2.

Options `@St{c}` and `@St{z}` are not aligned;

option `@St{s}` follows the alignment of its starting integer.

All padding is filled with zeros by `@Lid{string.pack}` and ignored by `@Lid{string.unpack}`.

}

}

`@sect2{utf8| @title{UTF-8 Support}`

This library provides basic support for `@x{UTF-8}` encoding.

It provides all its functions inside the table `@defid{utf8}`.

This library does not provide any support for `@x{Unicode}` other than the handling of the encoding.

Any operation that needs the meaning of a character, such as character classification, is outside its scope.

Unless stated otherwise,

all functions that expect a byte position as a parameter assume that the given position is either the start of a byte sequence or one plus the length of the subject string.

As in the string library,

negative indices count from the end of the string.

Functions that create byte sequences

accept all values up to `@T{0x7FFFFFFF}`,

as defined in the original UTF-8 specification;

that implies byte sequences of up to six bytes.

Functions that interpret byte sequences only accept

valid sequences (well formed and not overlong).

By default, they only accept byte sequences

that result in valid Unicode code points,

rejecting values greater than `@T{10FFFF}` and surrogates.

A boolean argument `@id{lax}`, when available,

lifts these checks,  
so that all values up to @T{0x7FFFFFFF} are accepted.  
(Not well formed and overlong sequences are still rejected.)

@LibEntry{utf8.char (@Cdots)}

Receives zero or more integers,  
converts each one to its corresponding UTF-8 byte sequence  
and returns a string with the concatenation of all these sequences.

}

@LibEntry{utf8.charpattern|

The pattern (a string, not a function) @St{[\0-\x7F\xC2-\xFD][\x80-\xBF]\*}  
@see{pm},  
which matches exactly one UTF-8 byte sequence,  
assuming that the subject is a valid UTF-8 string.

}

@LibEntry{utf8.codes (s [, lax])}

Returns values so that the construction  
@verbatim{  
for p, c in utf8.codes(s) do @rep{body} end  
}  
will iterate over all UTF-8 characters in string @id{s},  
with @id{p} being the position (in bytes) and @id{c} the code point  
of each character.  
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.codepoint (s [, i [, j [, lax]])}

Returns the code points (as integers) from all characters in @id{s}  
that start between byte position @id{i} and @id{j} (both included).  
The default for @id{i} is 1 and for @id{j} is @id{i}.  
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.len (s [, i [, j [, lax]])}

Returns the number of UTF-8 characters in string @id{s}  
that start between positions @id{i} and @id{j} (both inclusive).



The default for @id{i} is @num{1} and for @id{j} is @num{-1}.

If it finds any invalid byte sequence,  
returns @fail plus the position of the first invalid byte.

}

@LibEntry{utf8.offset (s, n [, i])}

Returns the position (in bytes) where the encoding of the  
@id{n}-th character of @id{s}  
(counting from position @id{i}) starts.

A negative @id{n} gets characters before position @id{i}.

The default for @id{i} is 1 when @id{n} is non-negative  
and @T{#s + 1} otherwise,

so that @T{utf8.offset(s, -n)} gets the offset of the  
@id{n}-th character from the end of the string.

If the specified character is neither in the subject  
nor right after its end,  
the function returns @fail.

As a special case,

when @id{n} is 0 the function returns the start of the encoding  
of the character that contains the @id{i}-th byte of @id{s}.

This function assumes that @id{s} is a valid UTF-8 string.

}

}

@sect2{tablib| @title{Table Manipulation}}

This library provides generic functions for table manipulation.

It provides all its functions inside the table @defid{table}.

Remember that, whenever an operation needs the length of a table,  
all caveats about the length operator apply @see{len-op}.

All functions ignore non-numeric keys  
in the tables given as arguments.

@LibEntry{table.concat (list [, sep [, i [, j]]])}

Given a list where all elements are strings or numbers,  
returns the string @T{list[i]..sep..list[i+1] @Cdots sep..list[j]}.

The default value for @id{sep} is the empty string,

the default for @id{i} is 1,

and the default for @id{j} is @T{#list}.

If @id{i} is greater than @id{j}, returns the empty string.

}

@LibEntry{table.insert (list, [pos,] value)}

Inserts element @id{value} at position @id{pos} in @id{list}, shifting up the elements

@T{list[pos], list[pos+1], @Cdots, list[#list]}.

The default value for @id{pos} is @T{#list+1},

so that a call @T{table.insert(t,x)} inserts @id{x} at the end of the list @id{t}.

}

@LibEntry{table.move (a1, f, e, t [,a2])}

Moves elements from the table @id{a1} to the table @id{a2}, performing the equivalent to the following

multiple assignment:

@T{a2[t],@Cdots = a1[f],@Cdots,a1[e]}.

The default for @id{a2} is @id{a1}.

The destination range can overlap with the source range.

The number of elements to be moved must fit in a Lua integer.

Returns the destination table @id{a2}.

}

@LibEntry{table.pack (@Cdots)}

Returns a new table with all arguments stored into keys 1, 2, etc.

and with a field @St{n} with the total number of arguments.

Note that the resulting table may not be a sequence,

if some arguments are @nil.

}

@LibEntry{table.remove (list [, pos])}

Removes from @id{list} the element at position @id{pos}, returning the value of the removed element.

When @id{pos} is an integer between 1 and @T{#list},

it shifts down the elements

@T{list[pos+1], list[pos+2], @Cdots, list[#list]}

and erases element @T{list[#list]};

The index @id{pos} can also be 0 when @T{#list} is 0,

or @T{#list + 1}.

The default value for @id{pos} is @T{#list},  
so that a call @T{table.remove(1)} removes the last element  
of the list @id{1}.

}

@LibEntry{table.sort (list [, comp])}

Sorts the list elements in a given order, @emph{in-place},  
from @T{list[1]} to @T{list[#list]}.

If @id{comp} is given,

then it must be a function that receives two list elements  
and returns true when the first element must come  
before the second in the final order,

so that, after the sort,

@T{i <= j} implies @T{not comp(list[j],list[i])}.

If @id{comp} is not given,

then the standard Lua operator @T{<} is used instead.

The @id{comp} function must define a consistent order;  
more formally, the function must define a strict weak order.  
(A weak order is similar to a total order,  
but it can equate different elements for comparison purposes.)

The sort algorithm is not stable:

Different elements considered equal by the given order  
may have their relative positions changed by the sort.

}

@LibEntry{table.unpack (list [, i [, j]])}

Returns the elements from the given list.

This function is equivalent to

@verbatim{

return list[i], list[i+1], @Cdots, list[j]

}

By default, @id{i} @N{is 1} and @id{j} is @T{#list}.

}

}

@sect2{mathlib| @title{Mathematical Functions}}

This library provides basic mathematical functions.

It provides all its functions and constants inside the table @defid{math}.

Functions with the annotation `@St{integer/float}` give integer results for integer arguments and float results for non-integer arguments.

The rounding functions

`@Lid{math.ceil}`, `@Lid{math.floor}`, and `@Lid{math.modf}` return an integer when the result fits in the range of an integer, or a float otherwise.

`@LibEntry{math.abs (x)}`

Returns the maximum value between `@id{x}` and `@id{-x}`. (integer/float)

}

`@LibEntry{math.acos (x)}`

Returns the arc cosine of `@id{x}` (in radians).

}

`@LibEntry{math.asin (x)}`

Returns the arc sine of `@id{x}` (in radians).

}

`@LibEntry{math.atan (y [, x])}`

`@index{atan2}`

Returns the arc tangent of `@T{y/x}` (in radians), but uses the signs of both arguments to find the quadrant of the result.

It also handles correctly the case of `@id{x}` being zero.

The default value for `@id{x}` is 1, so that the call `@T{math.atan(y)}` returns the arc tangent of `@id{y}`.

}

`@LibEntry{math.ceil (x)}`

Returns the smallest integral value greater than or equal to `@id{x}`.

}

`@LibEntry{math.cos (x)}`

Returns the cosine of @id{x} (assumed to be in radians).

}

@LibEntry{math.deg (x)|

Converts the angle @id{x} from radians to degrees.

}

@LibEntry{math.exp (x)|

Returns the value  $M\{e^{sp\{x}\}}$   
(where @id{e} is the base of natural logarithms).

}

@LibEntry{math.floor (x)|

Returns the largest integral value less than or equal to @id{x}.

}

@LibEntry{math.fmod (x, y)|

Returns the remainder of the division of @id{x} by @id{y}  
that rounds the quotient towards zero. (integer/float)

}

@LibEntry{math.huge|

The float value @id{x}{HUGE\_VAL},  
a value greater than any other numeric value.

}

@LibEntry{math.log (x [, base])|

Returns the logarithm of @id{x} in the given base.  
The default for @id{base} is  $M\{e\}$   
(so that the function returns the natural logarithm of @id{x}).

}

@LibEntry{math.max (x, @Cdots)|

Returns the argument with the maximum value,

according to the Lua operator @T{<}.

}

@LibEntry{math.maxinteger|

An integer with the maximum value for an integer.

}

@LibEntry{math.min (x, @Cdots)|

Returns the argument with the minimum value,  
according to the Lua operator @T{<}.

}

@LibEntry{math.mininteger|

An integer with the minimum value for an integer.

}

@LibEntry{math.modf (x)|

Returns the integral part of @id{x} and the fractional part of @id{x}.  
Its second result is always a float.

}

@LibEntry{math.pi|

The value of @M{@pi}.

}

@LibEntry{math.rad (x)|

Converts the angle @id{x} from degrees to radians.

}

@LibEntry{math.random ([m [, n]])|

When called without arguments,  
returns a pseudo-random float with uniform distribution  
in the range @C{(} @M{[0,1)}. @C{[]}

When called with two integers @id{m} and @id{n},  
@id{math.random} returns a pseudo-random integer  
with uniform distribution in the range @M{[m, n]}.

The call `@T{math.random(n)}`, for a positive `@id{n}`, is equivalent to `@T{math.random(1,n)}`.  
The call `@T{math.random(0)}` produces an integer with all bits (pseudo)random.

This function uses the `@idx{xoshiro256**}` algorithm to produce pseudo-random 64-bit integers, which are the results of calls with `@N{argument 0}`.  
Other results (ranges and floats) are unbiased extracted from these integers.

Lua initializes its pseudo-random generator with the equivalent of a call to `@Lid{math.randomseed}` with no arguments, so that `@id{math.random}` should generate different sequences of results each time the program runs.

}

`@LibEntry{math.randomseed ([x [, y]])}`

When called with at least one argument, the integer parameters `@id{x}` and `@id{y}` are joined into a 128-bit `@emphx{seed}` that is used to reinitialize the pseudo-random generator; equal seeds produce equal sequences of numbers. The default for `@id{y}` is zero.

When called with no arguments, Lua generates a seed with a weak attempt for randomness.

This function returns the two seed components that were effectively used, so that setting them again repeats the sequence.

To ensure a required level of randomness to the initial state (or contrarily, to have a deterministic sequence, for instance when debugging a program), you should call `@Lid{math.randomseed}` with explicit arguments.

}

`@LibEntry{math.sin (x)}`

Returns the sine of `@id{x}` (assumed to be in radians).

}

@LibEntry{math.sqrt (x)|

Returns the square root of @id{x}.  
(You can also use the expression @T{x^0.5} to compute this value.)

}

@LibEntry{math.tan (x)|

Returns the tangent of @id{x} (assumed to be in radians).

}

@LibEntry{math.tointeger (x)|

If the value @id{x} is convertible to an integer,  
returns that integer.  
Otherwise, returns @fail.

}

@LibEntry{math.type (x)|

Returns @St{integer} if @id{x} is an integer,  
@St{float} if it is a float,  
or @fail if @id{x} is not a number.

}

@LibEntry{math.ult (m, n)|

Returns a boolean,  
@true if and only if integer @id{m} is below integer @id{n} when  
they are compared as @x{unsigned integers}.

}

}

@sect2{iolib| @title{Input and Output Facilities}}

The I/O library provides two different styles for file manipulation.  
The first one uses implicit file handles;  
that is, there are operations to set a default input file and a  
default output file,  
and all input/output operations are done over these default files.  
The second style uses explicit file handles.



When using implicit file handles,  
all operations are supplied by table `@defid{io}`.  
When using explicit file handles,  
the operation `@Lid{io.open}` returns a file handle  
and then all operations are supplied as methods of the file handle.

The metatable for file handles provides metamethods  
for `@idx{__gc}` and `@idx{__close}` that try  
to close the file when called.

The table `@id{io}` also provides  
three predefined file handles with their usual meanings from C:  
`@defid{io.stdin}`, `@defid{io.stdout}`, and `@defid{io.stderr}`.  
The I/O library never closes these files.

Unless otherwise stated,  
all I/O functions return `@fail` on failure,  
plus an error message as a second result and  
a system-dependent error code as a third result,  
and some non-false value on success.  
On non-POSIX systems,  
the computation of the error message and error code  
in case of errors  
may be not `@x{thread safe}`,  
because they rely on the global C variable `@id{errno}`.

`@LibEntry{io.close ([file])}`

Equivalent to `@T{file:close()}`.  
Without a `@id{file}`, closes the default output file.

}

`@LibEntry{io.flush ()}`

Equivalent to `@T{io.output():flush()}`.

}

`@LibEntry{io.input ([file])}`

When called with a file name, it opens the named file (in text mode),  
and sets its handle as the default input file.  
When called with a file handle,  
it simply sets this file handle as the default input file.  
When called without arguments,  
it returns the current default input file.

In case of errors this function raises the error,  
instead of returning an error code.

```
}
```

```
@LibEntry{io.lines ([filename, @Cdots])}
```

Opens the given file name in read mode  
and returns an iterator function that  
works like `@T{file:lines(@Cdots)}` over the opened file.

When the iterator function fails to read any value,  
it automatically closes the file.

Besides the iterator function,

`@id{io.lines}` returns three other values:

two `@nil` values as placeholders,

plus the created file handle.

Therefore, when used in a generic `@Rw{for}` loop,  
the file is closed also if the loop is interrupted by an  
error or a `@Rw{break}`.

The call `@T{io.lines()}` (with no file name) is equivalent

to `@T{io.input():lines("I")}`;

that is, it iterates over the lines of the default input file.

In this case, the iterator does not close the file when the loop ends.

In case of errors opening the file,  
this function raises the error,  
instead of returning an error code.

```
}
```

```
@LibEntry{io.open (filename [, mode])}
```

This function opens a file,  
in the mode specified in the string `@id{mode}`.

In case of success,

it returns a new file handle.

The `@id{mode}` string can be any of the following:

`@description{`

`@item{ @St{r}| read mode (the default);}`

`@item{ @St{w}| write mode;}`

`@item{ @St{a}| append mode;}`

`@item{ @St{r+}| update mode, all previous data is preserved;}`

`@item{ @St{w+}| update mode, all previous data is erased;}`

`@item{ @St{a+}| append update mode, previous data is preserved,  
writing is only allowed at the end of file.}`

```
}
```

The `@id{mode}` string can also have a `@Char{b}` at the end, which is needed in some systems to open the file in binary mode.

```
}
```

```
@LibEntry{io.output ([file])|
```

Similar to `@Lid{io.input}`, but operates over the default output file.

```
}
```

```
@LibEntry{io.popen (prog [, mode])|
```

This function is system dependent and is not available on all platforms.

Starts the program `@id{prog}` in a separated process and returns a file handle that you can use to read data from this program (if `@id{mode}` is `@T{"r"}`, the default) or to write data to this program (if `@id{mode}` is `@T{"w"}`).

```
}
```

```
@LibEntry{io.read (@Cdots)|
```

Equivalent to `@T{io.input():read(@Cdots)}`.

```
}
```

```
@LibEntry{io.tmpfile ()|
```

In case of success, returns a handle for a temporary file. This file is opened in update mode and it is automatically removed when the program ends.

```
}
```

```
@LibEntry{io.type (obj)|
```

Checks whether `@id{obj}` is a valid file handle. Returns the string `@T{"file"}` if `@id{obj}` is an open file handle, `@T{"closed file"}` if `@id{obj}` is a closed file handle, or `@fail` if `@id{obj}` is not a file handle.

```
}
```

```
@LibEntry{io.write (@Cdots)|
```

Equivalent to `@T{io.output():write(@Cdots)}`.

```
}
```

```
@LibEntry{file:close ()|
```

Closes `@id{file}`.

Note that files are automatically closed when their handles are garbage collected, but that takes an unpredictable amount of time to happen.

When closing a file handle created with `@Lid{io.popen}`, `@Lid{file:close}` returns the same values returned by `@Lid{os.execute}`.

```
}
```

```
@LibEntry{file:flush ()|
```

Saves any written data to `@id{file}`.

```
}
```

```
@LibEntry{file:lines (@Cdots)|
```

Returns an iterator function that, each time it is called, reads the file according to the given formats.

When no format is given, uses `@St{1}` as a default.

As an example, the construction

```
@verbatim{  
for c in file:lines(1) do @rep{body} end  
}
```

will iterate over all characters of the file, starting at the current position.

Unlike `@Lid{io.lines}`, this function does not close the file when the loop ends.

```
}
```

```
@LibEntry{file:read (@Cdots)|
```

Reads the file `@id{file}`, according to the given formats, which specify what to read.

For each format,  
the function returns a string or a number with the characters read,  
or @fail if it cannot read data with the specified format.  
(In this latter case,  
the function does not read subsequent formats.)  
When called without arguments,  
it uses a default format that reads the next line  
(see below).

The available formats are  
@description{

@item{ @St{n}|  
reads a numeral and returns it as a float or an integer,  
following the lexical conventions of Lua.  
(The numeral may have leading whitespaces and a sign.)  
This format always reads the longest input sequence that  
is a valid prefix for a numeral;  
if that prefix does not form a valid numeral  
(e.g., an empty string, @St{0x}, or @St{3.4e-})  
or it is too long (more than 200 characters),  
it is discarded and the format returns @fail.  
}

@item{ @St{a}|  
reads the whole file, starting at the current position.  
On end of file, it returns the empty string;  
this format never fails.  
}

@item{ @St{1}|  
reads the next line skipping the end of line,  
returning @fail on end of file.  
This is the default format.  
}

@item{ @St{L}|  
reads the next line keeping the end-of-line character (if present),  
returning @fail on end of file.  
}

@item{ @emph{number}}|  
reads a string with up to this number of bytes,  
returning @fail on end of file.  
If @id{number} is zero,  
it reads nothing and returns an empty string,  
or @fail on end of file.  
}

}

The formats @St{1} and @St{L} should be used only for text files.

}

@LibEntry{file:seek ([whence [, offset]])}

Sets and gets the file position,  
measured from the beginning of the file,  
to the position given by @id{offset} plus a base  
specified by the string @id{whence}, as follows:

```
@description{
@item{ @St{set}| base is position 0 (beginning of the file);}
@item{ @St{cur}| base is current position;}
@item{ @St{end}| base is end of file;}
}
```

In case of success, @id{seek} returns the final file position,  
measured in bytes from the beginning of the file.

If @id{seek} fails, it returns @fail,  
plus a string describing the error.

The default value for @id{whence} is @T{"cur"},  
and for @id{offset} is 0.

Therefore, the call @T{file:seek()} returns the current  
file position, without changing it;  
the call @T{file:seek("set")} sets the position to the  
beginning of the file (and returns 0);  
and the call @T{file:seek("end")} sets the position to the  
end of the file, and returns its size.

}

@LibEntry{file:setvbuf (mode [, size])}

Sets the buffering mode for a file.

There are three available modes:

```
@description{
@item{ @St{no}| no buffering.}
@item{ @St{full}| full buffering.}
@item{ @St{line}| line buffering.}
}
```

For the last two cases,

@id{size} is a hint for the size of the buffer, in bytes.

The default is an appropriate size.

The specific behavior of each mode is non portable;

check the underlying @ANSI{setvbuf} in your platform for more details.

}

@LibEntry{file:write (@Cdots)|

Writes the value of each of its arguments to @id{file}.  
The arguments must be strings or numbers.

In case of success, this function returns @id{file}.

}

}

@sect2{oslib| @title{Operating System Facilities}}

This library is implemented through table @defid{os}.

@LibEntry{os.clock ()|

Returns an approximation of the amount in seconds of CPU time used by the program,  
as returned by the underlying @ANSI{clock}.

}

@LibEntry{os.date ([format [, time]])|

Returns a string or a table containing date and time,  
formatted according to the given string @id{format}.

If the @id{time} argument is present,  
this is the time to be formatted  
(see the @Lid{os.time} function for a description of this value).  
Otherwise, @id{date} formats the current time.

If @id{format} starts with @Char{!},  
then the date is formatted in Coordinated Universal Time.  
After this optional character,  
if @id{format} is the string @St{\*t},  
then @id{date} returns a table with the following fields:  
@id{year}, @id{month} (1@En{ }12), @id{day} (1@En{ }31),  
@id{hour} (0@En{ }23), @id{min} (0@En{ }59),  
@id{sec} (0@En{ }61, due to leap seconds),  
@id{wday} (weekday, 1@En{ }7, Sunday @N{is 1}),

@id{yday} (day of the year, 1@En{ }366),  
and @id{isdst} (daylight saving flag, a boolean).  
This last field may be absent  
if the information is not available.

If @id{format} is not @St{\*t},  
then @id{date} returns the date as a string,  
formatted according to the same rules as the @ANSI{strftime}.

If @id{format} is absent, it defaults to @St{%c},  
which gives a human-readable date and time representation  
using the current locale.

On non-POSIX systems,  
this function may be not @x{thread safe}  
because of its reliance on @Cid{gmtime} and @Cid{localtime}.

}

@LibEntry{os.difftime (t2, t1)|

Returns the difference, in seconds,  
from time @id{t1} to time @id{t2}  
(where the times are values returned by @Lid{os.time}).  
In @x{POSIX}, @x{Windows}, and some other systems,  
this value is exactly @id{t2}@M{-}@id{t1}.

}

@LibEntry{os.execute ([command])|

This function is equivalent to the @ANSI{system}.  
It passes @id{command} to be executed by an operating system shell.  
Its first result is @true  
if the command terminated successfully,  
or @fail otherwise.  
After this first result  
the function returns a string plus a number,  
as follows:

@description{

@item{ @St{exit}|

the command terminated normally;  
the following number is the exit status of the command.

}

@item{ @St{signal}|

the command was terminated by a signal;



the following number is the signal that terminated the command.

}

}

When called without a @id{command},

@id{os.execute} returns a boolean that is true if a shell is available.

}

@LibEntry{os.exit ([code [, close]])}

Calls the @ANSI{exit} to terminate the host program.

If @id{code} is @true,

the returned status is @idx{EXIT\_SUCCESS};

if @id{code} is @false,

the returned status is @idx{EXIT\_FAILURE};

if @id{code} is a number,

the returned status is this number.

The default value for @id{code} is @true.

If the optional second argument @id{close} is true,

closes the Lua state before exiting.

}

@LibEntry{os.getenv (varname)}

Returns the value of the process environment variable @id{varname}

or @fail if the variable is not defined.

}

@LibEntry{os.remove (filename)}

Deletes the file (or empty directory, on @x{POSIX} systems)

with the given name.

If this function fails, it returns @fail

plus a string describing the error and the error code.

Otherwise, it returns true.

}

@LibEntry{os.rename (oldname, newname)}

Renames the file or directory named @id{oldname} to @id{newname}.

If this function fails, it returns @fail,

plus a string describing the error and the error code.

Otherwise, it returns true.

}

@LibEntry{os.setlocale (locale [, category])}

Sets the current locale of the program.

@id{locale} is a system-dependent string specifying a locale;

@id{category} is an optional string describing which category to change:

@T{"all"}, @T{"collate"}, @T{"ctype"},

@T{"monetary"}, @T{"numeric"}, or @T{"time"};

the default category is @T{"all"}.

The function returns the name of the new locale,

or @fail if the request cannot be honored.

If @id{locale} is the empty string,

the current locale is set to an implementation-defined native locale.

If @id{locale} is the string @St{C},

the current locale is set to the standard C locale.

When called with @nil as the first argument,

this function only returns the name of the current locale

for the given category.

This function may be not @x{thread safe}

because of its reliance on @Cid{setlocale}.

}

@LibEntry{os.time ([table])}

Returns the current time when called without arguments,

or a time representing the local date and time specified by the given table.

This table must have fields @id{year}, @id{month}, and @id{day},

and may have fields

@id{hour} (default is 12),

@id{min} (default is 0),

@id{sec} (default is 0),

and @id{isdst} (default is @nil).

Other fields are ignored.

For a description of these fields, see the @Lid{os.date} function.

When the function is called,

the values in these fields do not need to be inside their valid ranges.

For instance, if @id{sec} is -10,

it means 10 seconds before the time specified by the other fields;

if @id{hour} is 1000,

it means 1000 hours after the time specified by the other fields.

The returned value is a number, whose meaning depends on your system. In `@x{POSIX}`, `@x{Windows}`, and some other systems, this number counts the number of seconds since some given start time (the `@Q{epoch}`). In other systems, the meaning is not specified, and the number returned by `@id{time}` can be used only as an argument to `@Lid{os.date}` and `@Lid{os.difftime}`.

When called with a table, `@id{os.time}` also normalizes all the fields documented in the `@Lid{os.date}` function, so that they represent the same time as before the call but with values inside their valid ranges.

}

`@LibEntry{os.tmpname ()}`

Returns a string with a file name that can be used for a temporary file. The file must be explicitly opened before its use and explicitly removed when no longer needed.

In `@x{POSIX}` systems, this function also creates a file with that name, to avoid security risks. (Someone else might create the file with wrong permissions in the time between getting the name and creating the file.) You still have to open the file to use it and to remove it (even if you do not use it).

When possible, you may prefer to use `@Lid{io.tmpfile}`, which automatically removes the file when the program ends.

}

}

`@sect2{debuglib| @title{The Debug Library}`

This library provides the functionality of the `@link{debugI|debug interface}` to Lua programs. You should exert care when using this library. Several of its functions violate basic assumptions about Lua code (e.g., that variables local to a function

cannot be accessed from outside;  
that userdata metatables cannot be changed by Lua code;  
that Lua programs do not crash)  
and therefore can compromise otherwise secure code.  
Moreover, some functions in this library may be slow.

All functions in this library are provided  
inside the `@defid{debug}` table.

All functions that operate over a thread  
have an optional first argument which is the  
thread to operate over.

The default is always the current thread.

`@LibEntry{debug.debug ()}`

Enters an interactive mode with the user,  
running each string that the user enters.

Using simple commands and other debug facilities,  
the user can inspect global and local variables,  
change their values, evaluate expressions, and so on.

A line containing only the word `@id{cont}` finishes this function,  
so that the caller continues its execution.

Note that commands for `@id{debug.debug}` are not lexically nested  
within any function and so have no direct access to local variables.

}

`@LibEntry{debug.gethook ([thread])}`

Returns the current hook settings of the thread, as three values:  
the current hook function, the current hook mask,  
and the current hook count,  
as set by the `@Lid{debug.sethook}` function.

Returns `@fail` if there is no active hook.

}

`@LibEntry{debug.getinfo ([thread,] f [, what])}`

Returns a table with information about a function.

You can give the function directly

or you can give a number as the value of `@id{f}`,

which means the function running at level `@id{f}` of the call stack  
of the given thread:

`@N{level 0}` is the current function (`@id{getinfo}` itself);

@N{level 1} is the function that called @id{getinfo}  
(except for tail calls, which do not count in the stack);  
and so on.

If @id{f} is a number greater than the number of active functions,  
then @id{getinfo} returns @fail.

The returned table can contain all the fields returned by @Lid{lua\_getinfo},  
with the string @id{what} describing which fields to fill in.

The default for @id{what} is to get all information available,  
except the table of valid lines.

If present,

the option @Char{f}

adds a field named @id{func} with the function itself.

If present,

the option @Char{L}

adds a field named @id{activelines} with the table of  
valid lines.

For instance, the expression @T{debug.getinfo(1,"n").name} returns  
a name for the current function,  
if a reasonable name can be found,  
and the expression @T{debug.getinfo(print)}  
returns a table with all available information  
about the @Lid{print} function.

}

@LibEntry{debug.getlocal ([thread,] f, local)}

This function returns the name and the value of the local variable  
with index @id{local} of the function at level @id{f} of the stack.  
This function accesses not only explicit local variables,  
but also parameters and temporary values.

The first parameter or local variable has @N{index 1}, and so on,  
following the order that they are declared in the code,  
counting only the variables that are active  
in the current scope of the function.

Compile-time constants may not appear in this listing,  
if they were optimized away by the compiler.

Negative indices refer to vararg arguments;

@num{-1} is the first vararg argument.

The function returns @fail

if there is no variable with the given index,

and raises an error when called with a level out of range.

(You can call @Lid{debug.getinfo} to check whether the level is valid.)

Variable names starting with @Char{()} (open parenthesis) @C{}}

represent variables with no known names  
(internal variables such as loop control variables,  
and variables from chunks saved without debug information).

The parameter @id{f} may also be a function.  
In that case, @id{getlocal} returns only the name of function parameters.

}

@LibEntry{debug.getmetatable (value)|

Returns the metatable of the given @id{value}  
or @nil if it does not have a metatable.

}

@LibEntry{debug.getregistry ()|

Returns the registry table @see{registry}.

}

@LibEntry{debug.getupvalue (f, up)|

This function returns the name and the value of the upvalue  
with index @id{up} of the function @id{f}.  
The function returns @fail  
if there is no upvalue with the given index.

(For Lua functions,  
upvalues are the external local variables that the function uses,  
and that are consequently included in its closure.)

For @N{C functions}, this function uses the empty string @T{""}  
as a name for all upvalues.

Variable name @Char{?} (interrogation mark)  
represents variables with no known names  
(variables from chunks saved without debug information).

}

@LibEntry{debug.getuservalue (u, n)|

Returns the @id{n}-th user value associated  
to the userdata @id{u} plus a boolean,  
@false if the userdata does not have that value.

```
}
```

```
@LibEntry{debug.sethook ([thread,] hook, mask [, count])|
```

Sets the given function as the debug hook.

The string @id{mask} and the number @id{count} describe when the hook will be called.

The string mask may have any combination of the following characters, with the given meaning:

```
@description{
```

```
@item{ @Char{c} | the hook is called every time Lua calls a function;}
```

```
@item{ @Char{r} | the hook is called every time Lua returns from a function;}
```

```
@item{ @Char{l} | the hook is called every time Lua enters a new line of code.}
```

```
}
```

Moreover,

with a @id{count} different from zero,

the hook is called also after every @id{count} instructions.

When called without arguments,

```
@Lid{debug.sethook} turns off the hook.
```

When the hook is called, its first parameter is a string describing the event that has triggered its call:

```
@T{"call"}, @T{"tail call"}, @T{"return"},
```

```
@T{"line"}, and @T{"count"}.
```

For line events,

the hook also gets the new line number as its second parameter.

Inside a hook,

you can call @id{getinfo} with @N{level 2} to get more information about the running function.

(@N{Level 0} is the @id{getinfo} function,

and @N{level 1} is the hook function.)

```
}
```

```
@LibEntry{debug.setlocal ([thread,] level, local, value)|
```

This function assigns the value @id{value} to the local variable

with index @id{local} of the function at level @id{level} of the stack.

The function returns @fail if there is no local variable with the given index,

and raises an error when called with a @id{level} out of range.

(You can call @id{getinfo} to check whether the level is valid.)

Otherwise, it returns the name of the local variable.

See @Lid{debug.getlocal} for more information about

variable indices and names.

}

@LibEntry{debug.setmetatable (value, table)|

Sets the metatable for the given @id{value} to the given @id{table} (which can be @nil).

Returns @id{value}.

}

@LibEntry{debug.setupvalue (f, up, value)|

This function assigns the value @id{value} to the upvalue with index @id{up} of the function @id{f}.

The function returns @fail if there is no upvalue with the given index.

Otherwise, it returns the name of the upvalue.

See @Lid{debug.getupvalue} for more information about upvalues.

}

@LibEntry{debug.setuservalue (udata, value, n)|

Sets the given @id{value} as the @id{n}-th user value associated to the given @id{udata}. @id{udata} must be a full userdata.

Returns @id{udata}, or @fail if the userdata does not have that value.

}

@LibEntry{debug.traceback ([thread,] [message [, level]])|

If @id{message} is present but is neither a string nor @nil, this function returns @id{message} without further processing.

Otherwise,

it returns a string with a traceback of the call stack.

The optional @id{message} string is appended at the beginning of the traceback.

An optional @id{level} number tells at which level to start the traceback (default is 1, the function calling @id{traceback}).

}

@LibEntry{debug.upvalueid (f, n)|



Returns a unique identifier (as a light userdata)  
for the upvalue numbered @id{n}  
from the given function.

These unique identifiers allow a program to check whether different  
closures share upvalues.

Lua closures that share an upvalue  
(that is, that access a same external local variable)  
will return identical ids for those upvalue indices.

}

@LibEntry{debug.upvaluejoin (f1, n1, f2, n2)|

Make the @id{n1}-th upvalue of the Lua closure @id{f1}  
refer to the @id{n2}-th upvalue of the Lua closure @id{f2}.

}

}

}

@C{-----}  
@sect1{lua-sa| @title{Lua Standalone}}

Although Lua has been designed as an extension language,  
to be embedded in a host @N{C program},  
it is also frequently used as a standalone language.  
An interpreter for Lua as a standalone language,  
called simply @id{lua},  
is provided with the standard distribution.  
The @x{standalone interpreter} includes  
all standard libraries.

Its usage is:

```
@verbatim{  
lua [options] [script [args]]  
}
```

The options are:

```
@description{  
@item{@T{-e @rep{stat}}| execute string @rep{stat};}  
@item{@T{-i}| enter interactive mode after running @rep{script};}  
@item{@T{-l @rep{mod}}| @Q{require} @rep{mod} and assign the  
result to global @rep{mod};}  
@item{@T{-v}| print version information;}  
@item{@T{-E}| ignore environment variables;}
```

```
@item{ @T{-W}| turn warnings on;}
@item{ @T{--}| stop handling options;}
@item{ @T{-}| execute @id{stdin} as a file and stop handling options.}
}
```

After handling its options, @id{lua} runs the given @emph{script}.

When called without arguments,

@id{lua} behaves as @T{lua -v -i}

when the standard input (@id{stdin}) is a terminal,

and as @T{lua -} otherwise.

When called without the option @T{-E},

the interpreter checks for an environment variable @defid{LUA\_INIT\_5\_4}

(or @defid{LUA\_INIT} if the versioned name is not defined)

before running any argument.

If the variable content has the format @T{ @At@rep{filename} },

then @id{lua} executes the file.

Otherwise, @id{lua} executes the string itself.

When called with the option @T{-E},

Lua does not consult any environment variables.

In particular,

the values of @Lid{package.path} and @Lid{package.cpath}

are set with the default paths defined in @id{luaconf.h}.

The options @T{-e}, @T{-l}, and @T{-W} are handled in the order they appear.

For instance, an invocation like

```
@verbatim{
$ lua -e 'a=1' -llib1 script.lua
}
```

will first set @id{a} to 1, then require the library @id{lib1},

and finally run the file @id{script.lua} with no arguments.

(Here @T{\$} is the shell prompt. Your prompt may be different.)

Before running any code,

@id{lua} collects all command-line arguments

in a global table called @id{arg}.

The script name goes to index 0,

the first argument after the script name goes to index 1,

and so on.

Any arguments before the script name

(that is, the interpreter name plus its options)

go to negative indices.

For instance, in the call

```
@verbatim{
$ lua -la b.lua t1 t2
}
```

the table is like this:

```
@verbatim{
arg = { [-2] = "lua", [-1] = "-la",
      [0] = "b.lua",
      [1] = "t1", [2] = "t2" }
}
```

If there is no script in the call,  
the interpreter name goes to index 0,  
followed by the other arguments.

For instance, the call

```
@verbatim{
$ lua -e "print(arg[1])"
}
```

will print @St{-e}.

If there is a script,  
the script is called with arguments  
@T{arg[1]}, @Cdots, @T{arg[#arg]}.

Like all chunks in Lua,  
the script is compiled as a vararg function.

In interactive mode,  
Lua repeatedly prompts and waits for a line.  
After reading a line,  
Lua first try to interpret the line as an expression.  
If it succeeds, it prints its value.  
Otherwise, it interprets the line as a statement.  
If you write an incomplete statement,  
the interpreter waits for its completion  
by issuing a different prompt.

If the global variable @defid{\_PROMPT} contains a string,  
then its value is used as the prompt.  
Similarly, if the global variable @defid{\_PROMPT2} contains a string,  
its value is used as the secondary prompt  
(issued during incomplete statements).

In case of unprotected errors in the script,  
the interpreter reports the error to the standard error stream.  
If the error object is not a string but  
has a metamethod @idx{\_\_tostring},  
the interpreter calls this metamethod to produce the final message.  
Otherwise, the interpreter converts the error object to a string  
and adds a stack traceback to it.  
When warnings are on,  
they are simply printed in the standard error output.

When finishing normally,  
the interpreter closes its main Lua state  
@seeF{lua\_close}.

The script can avoid this step by calling `@Lid{os.exit}` to terminate.

To allow the use of Lua as a script interpreter in Unix systems, Lua skips the first line of a file chunk if it starts with `@T{#}`. Therefore, Lua scripts can be made into executable programs by using `@T{chmod +x}` and `@N{the @T{#!}}` form, as in

```
@verbatim{
#!/usr/local/bin/lua
}
```

Of course, the location of the Lua interpreter may be different in your machine. If `@id{lua}` is in your `@id{PATH}`,

then

```
@verbatim{
#!/usr/bin/env lua
}
```

is a more portable solution.

```
}
```

```
@sect1 {incompat| @title{Incompatibilities with the Previous Version}
```

```
@simplesect{
```

Here we list the incompatibilities that you may find when moving a program from `@N{Lua 5.3}` to `@N{Lua 5.4}`.

You can avoid some incompatibilities by compiling Lua with appropriate options (see file `@id{luaconf.h}`).

However,

all these compatibility options will be removed in the future.

More often than not,

compatibility issues arise when these compatibility options are removed.

So, whenever you have the chance,

you should try to test your code with a version of Lua compiled with all compatibility options turned off.

That will ease transitions to newer versions of Lua.

Lua versions can always change the C API in ways that do not imply source-code changes in a program, such as the numeric values for constants or the implementation of functions as macros.

Therefore,

you should never assume that binaries are compatible between different Lua versions.

Always recompile clients of the Lua API when using a new version.

Similarly, Lua versions can always change the internal representation of precompiled chunks; precompiled chunks are not compatible between different Lua versions.

The standard paths in the official distribution may change between versions.

}

@sect2{ @title{Incompatibilities in the Language}

@itemize{

@item{

The coercion of strings to numbers in arithmetic and bitwise operations has been removed from the core language.

The string library does a similar job for arithmetic (but not for bitwise) operations using the string metamethods.

However, unlike in previous versions, the new implementation preserves the implicit type of the numeral in the string.

For instance, the result of `@T{"1" + "2"}` now is an integer, not a float.

}

@item{

Literal decimal integer constants that overflow are read as floats, instead of wrapping around.

You can use hexadecimal notation for such constants if you want the old behavior (reading them as integers with wrap around).

}

@item{

The use of the `@idx{__lt}` metamethod to emulate `@idx{__le}` has been removed.

When needed, this metamethod must be explicitly defined.

}

@item{

The semantics of the numerical `@Rw{for}` loop over integers changed in some details.

In particular, the control variable never wraps around.

}

@item{

A label for a @Rw{goto} cannot be declared where a label with the same name is visible, even if this other label is declared in an enclosing block.

}

@item{

When finalizing an object,

Lua does not ignore @idx{\_\_gc} metamethods that are not functions.

Any value will be called, if present.

(Non-callable values will generate a warning, like any other error when calling a finalizer.)

}

}

}

@sect2{@title{Incompatibilities in the Libraries}}

@itemize{

@item{

The function @Lid{print} does not call @Lid{tostring} to format its arguments;

instead, it has this functionality hardwired.

You should use @idx{\_\_tostring} to modify how values are printed.

}

@item{

The pseudo-random number generator used by the function @Lid{math.random} now starts with a somewhat random seed.

Moreover, it uses a different algorithm.

}

@item{

By default, the decoding functions in the @Lid{utf8} library do not accept surrogates as valid code points.

An extra parameter in these functions makes them more permissive.

}

@item{

The options @St{setpause} and @St{setstepmul} of the function @Lid{collectgarbage} are deprecated.

You should use the new option @St{incremental} to set them.

}

```

@item{
The function @Lid{io.lines} now returns four values,
instead of just one.
That can be a problem when it is used as the sole
argument to another function that has optional parameters,
such as in @T{load(io.lines(filename, "L"))}.
To fix that issue,
you can wrap the call into parentheses,
to adjust its number of results to one.
}
}
}

```

```
@sect2{ @title{Incompatibilities in the API}
```

```

@itemize{

@item{
Full userdata now has an arbitrary number of associated user values.
Therefore, the functions @id{lua_newuserdata},
@id{lua_setuservalue}, and @id{lua_getuservalue} were
replaced by @Lid{lua_newuserdatauv},
@Lid{lua_setiuservalue}, and @Lid{lua_getiuservalue},
which have an extra argument.

For compatibility, the old names still work as macros assuming
one single user value.
Note, however, that userdata with zero user values
are more efficient memory-wise.
}

```

```

@item{
The function @Lid{lua_resume} has an extra parameter.
This out parameter returns the number of values on
the top of the stack that were yielded or returned by the coroutine.
(In previous versions,
those values were the entire stack.)
}

```

```

@item{
The function @Lid{lua_version} returns the version number,
instead of an address of the version number.
The Lua core should work correctly with libraries using their
own static copies of the same core,
so there is no need to check whether they are using the same

```

address space.

}

@item{

The constant @id{LUA\_ERRGCMM} was removed.

Errors in finalizers are never propagated;

instead, they generate a warning.

}

@item{

The options @idx{LUA\_GCSETPAUSE} and @idx{LUA\_GCSETSTEPMUL} of the function @Lid{lua\_gc} are deprecated.

You should use the new option @id{LUA\_GCINC} to set them.

}

}

}

}

@C{[=====]}

@sect1{BNF| @title{The Complete Syntax of Lua}

Here is the complete syntax of Lua in extended BNF.

As usual in extended BNF,

@bnfNter{A} means 0 or more @bnfNter{A}s,

and @bnfNter{[A]} means an optional @bnfNter{A}.

(For operator precedences, see @See{prec};

for a description of the terminals

@bnfNter{Name}, @bnfNter{Numeral},

and @bnfNter{LiteralString}, see @See{lexical}.)

@index{grammar}

@Produc{

@producname{chunk}@producbody{block}

@producname{block}@producbody{@bnfrep{stat} @bnfopt{retstat}}

@producname{stat}@producbody{

@bnfter{;}}

@OrNL varlist @bnfter{=} explist

@OrNL functioncall

@OrNL label

@OrNL @Rw{break}



```

@OrNL @Rw{goto} Name
@OrNL @Rw{do} block @Rw{end}
@OrNL @Rw{while} exp @Rw{do} block @Rw{end}
@OrNL @Rw{repeat} block @Rw{until} exp
@OrNL @Rw{if} exp @Rw{then} block
    @bnfrep{ @Rw{elseif} exp @Rw{then} block}
    @bnfoft{ @Rw{else} block } @Rw{end}
@OrNL @Rw{for} @bnfNter{Name} @bnfter{=} exp @bnfter{,} exp @bnfoft{ @bnfter{,} exp }
    @Rw{do} block @Rw{end}
@OrNL @Rw{for} namelist @Rw{in} explist @Rw{do} block @Rw{end}
@OrNL @Rw{function} funcname funcbody
@OrNL @Rw{local} @Rw{function} @bnfNter{Name} funcbody
@OrNL @Rw{local} attnamelist @bnfoft{ @bnfter{=} explist
}

@producname{attnamelist}@producbody{
    @bnfNter{Name} attrib @bnfrep{ @bnfter{,} @bnfNter{Name} attrib}}

@producname{attrib}@producbody{ @bnfoft{ @bnfter{<} @bnfNter{Name} @bnfter{>}}}

@producname{retstat}@producbody{ @Rw{return}
    @bnfoft{explist} @bnfoft{ @bnfter{;}}}

@producname{label}@producbody{ @bnfter{::} Name @bnfter{::}}

@producname{funcname}@producbody{ @bnfNter{Name} @bnfrep{ @bnfter{.} @bnfNter{Name}}
    @bnfoft{ @bnfter{:} @bnfNter{Name}}}

@producname{varlist}@producbody{ var @bnfrep{ @bnfter{,} var}}

@producname{var}@producbody{
    @bnfNter{Name}
    @Or prefixexp @bnfter{[] exp @bnfter{[]}}
    @Or prefixexp @bnfter{.} @bnfNter{Name}
}

@producname{namelist}@producbody{ @bnfNter{Name} @bnfrep{ @bnfter{,} @bnfNter{Name}}}

@producname{explist}@producbody{ exp @bnfrep{ @bnfter{,} exp}}

@producname{exp}@producbody{
    @Rw{nil}
    @Or @Rw{false}
    @Or @Rw{true}
    @Or @bnfNter{Numeral}
    @Or @bnfNter{LiteralString}
    @Or @bnfter{...}
}

```

```

@Or fonctiondef
@OrNL prefixexp
@Or tableconstructor
@Or exp binop exp
@Or unop exp
}

@producname{prefixexp}@producbody{var @Or functioncall @Or @bnfter{() exp @bnfter{)}}

@producname{functioncall}@producbody{
prefixexp args
@Or prefixexp @bnfter{:} @bnfNter{Name} args
}

@producname{args}@producbody{
@bnfter{() @bnfopt{explist} @bnfter{}}
@Or tableconstructor
@Or @bnfNter{LiteralString}
}

@producname{fonctiondef}@producbody{@Rw{function} funcbody}

@producname{funcbody}@producbody{@bnfter{() @bnfopt{parlist} @bnfter{}} block @Rw{end}}

@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}}
@Or @bnfter{...}}

@producname{tableconstructor}@producbody{@bnfter{@Open} @bnfopt{fieldlist} @bnfter{@Close}}

@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}

@producname{field}@producbody{@bnfter{[] exp @bnfter{[]} @bnfter{=} exp @Or @bnfNter{Name}
@bnfter{=} exp @Or exp}

@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}

@producname{binop}@producbody{
@bnfter{+} @Or @bnfter{-} @Or @bnfter{*} @Or @bnfter{/} @Or @bnfter{///}
@Or @bnfter{^} @Or @bnfter{%}
@OrNL
@bnfter{&} @Or @bnfter{~} @Or @bnfter{[]} @Or @bnfter{>>} @Or @bnfter{<<}
@Or @bnfter{..}
@OrNL
@bnfter{<} @Or @bnfter{<=} @Or @bnfter{>} @Or @bnfter{>=}
@Or @bnfter{==} @Or @bnfter{~=}
@OrNL
@Rw{and} @Or @Rw{or}}

```

```
@producname{unop}@producbody{@bnfter{-} @Or @Rw{not} @Or @bnfter{#} @Or
@bnfter{~}}
```

```
}
```

```
}
```

```
@C{=====}
```

```
}
```

```
@C{]-----}
```

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\* /opt/cola/permits/1572161114\_1677062205.8811197/0/lu5-4-4-zip/lu5-4.4/manual/manual.of

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# 1.184 mwitkow-go-contrack 0.0.0- 20190716064945-2f068394615f

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# 1.185 mergo 0.3.6

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

# 1.186 go-openapi-jsonpointer 0.19.5

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# 1.187 golang-protobuf-extensions 1.0.2- 0.20181231171920-c182affec369

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## ## Core Tools

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## ## Core Docs

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- # Contributions to .NET Core SDK 1.0

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core SDK 1.0. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```
```bash
```

```
git shortlog -sne --no-merges --until release/1.1.0@{2017-02-25}
```

```
^^^
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

```
## .NET Core Tools (SDK)
```

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# Contributions to .NET Core 2.0

The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0.

```
```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-07-25}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- \* [CLI](#cli)
- \* [CoreCLR](#coreclr)
- \* [CoreFX](#corefx)
- \* [WCF](#wcf)

## CLI

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## ## CoreCLR

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# Contributions to .NET 5.0

.NET 5 is an amazing milestone enabled, in part, by a wonderfully engaged community. This page is an attempt to acknowledge the efforts of many folks across the breadth of the ecosystem. We're working to get better at recognizing the your contributions so please, let us know if something is incorrect or missing.

**\*\*Thank you!!\*\***

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```
```bash
git shortlog -sne --no-merges --since release/2.0.0@{2017-05-05} --until release/2.0.0@{2017-06-07}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- \* [CLI](#cli)
- \* [CoreCLR](#coreclr)
- \* [CoreFX](#corefx)
- \* [WCF](#wcf)

## CLI

- \* [Livar Cunha (57)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com>)
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- \* [Nick Guerrero (29)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nicholg@microsoft.com>)
- \* [John Beisner (28)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jbeisner@microsoft.com>)
- \* [Eric Erhardt (22)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=eric.erhardt@microsoft.com>)
- \* [William Li (21)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=wul@microsoft.com>)
- \* [Livar (14)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com>)
- \* [Daniel Plaisted (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=daplaist@microsoft.com>)
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## ## CoreCLR

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- \* [Jan Kotas (8)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jkotas@microsoft.com>)
- \* [Pat Gavlin (7)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=pagavlin@microsoft.com>)
- \* [Mike McLaughlin (6)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=mikem@microsoft.com>)
- \* [Pat Gavlin (5)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=pgavlin@gmail.com>)
- \* [Sergey Andreenko]



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\* [Jan Kotas (1)](<https://github.com/dotnet/corefx/commits/release/2.0.0?author=jkotas@microsoft.com>)

\* [Gene Lee (1)](<https://github.com/dotnet/corefx/commits/release/2.0.0?author=gelee@microsoft.com>)

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## ## WCF

```
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* [Zhenlan Wang (3)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=zhenlwa@microsoft.com)
* [Matt Connew (2)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=mconnew@microsoft.com)
* [KKhurin (2)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=kkhurin@microsoft.com)
* [Tarek Mahmoud Sayed
(2)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=tarekms@microsoft.com)
* [Shin Mao (1)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=shmao@microsoft.com)
* [hongdai (1)](https://github.com/dotnet/wcf/commits/release/2.0.0?author=hongdai@microsoft.com)
# Contributions to .NET Core 1.1
```

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command against each repo. The release qualifier is different from the example in some cases. Also, where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```
```bash
git shortlog -sne --no-merges --since {2016-05-20} --until {2016-11-08}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

## ## CLI

```
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- [Livar Cunha (45)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=livar@live.com)
- [Bryan Thornbury (27)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=brthor@microsoft.com)
- [Zlatko Knezevic (11)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=zlakne@microsoft.com)
- [Eric St. John (10)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=ericstj@microsoft.com)
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- [Eric Mellino (9)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=erme@microsoft.com)
- [Sridhar Periyasamy (9)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=sridhper@microsoft.com)
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## ## CoreCLR

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## # Contributions to .NET Core 2.1

The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.1.

```
```bash
git shortlog -sne --no-merges --since 2017-11-16 --until 2018-05-15
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- \* [CLI](#cli)
- \* [CoreCLR](#coreclr)
- \* [CoreFX](#corefx)
- \* [WCF](#wcf)

## ## CLI

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## ## CoreCLR

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## # Contributions to .NET Core 2.0 Preview 1

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0 Preview 1. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```

```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-05-05} --
committer="dotnet-bot" --invert-grep
```

```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- \* [CLI](#cli)
- \* [CoreCLR](#coreclr)
- \* [CoreFX](#corefx)
- \* [WCF](#wcf)

## ## CLI

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# This is the official list of people who can contribute

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# 1.200 x-sys 0.0.0-20220520151302- bc2c85ada10a

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## 1.204 yusufpapurcu-wmi 1.2.2

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## 1.205 x-sync 0.0.0-20201207232520-09787c993a3a

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## 1.208 zlib 1.2.5

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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# 1.211 golang 1.18

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#  
# An entry with multiple email addresses specifies that the  
# first address should be used in the submit logs and  
# that the other addresses should be recognized as the  
# same person when interacting with Gerrit.

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Microsoft.PowerShell.Archive

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.222 rcrowley-go-metrics 0.0.0-

# 20181016184325-3113b8401b8a

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# 1.225 go-openapi-swag 0.19.14

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## 1.226 go-units 0.5.0

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## 1.229 protobuf 1.27.1

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# 1.230 beevik-ntp 0.3.0

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# 1.231 x-net 0.7.0

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## 1.232 icu 2.8.1

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## \*-makefile\*-

## FreeBSD-specific setup

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##

## \$Id: mh-bsd-gcc,v 1.8 2003/12/18 23:14:12 emader-oss Exp \$

## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

## Compiler switch to embed a runtime search path

LD\_RPATH=

LD\_RPATH\_PRE= -Wl,-rpath,

## Compiler switch to embed a library name

LD\_SONAME = -Wl,-soname -Wl,\$(MIDDLE\_SO\_TARGET)

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC\_O = ao

## Compilation rules

%. \$(STATIC\_O): \$(srcdir)/%.c

\$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.c

\$(COMPILE.c) \$(DYNAMICCPPFLAGS) \$(DYNAMICCFLAGS) -o \$@ \$<

%. \$(STATIC\_O): \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.cpp

```
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
```

```
%.d: $(srcdir)/%.c
```

```
@echo "generating dependency information for $<"
```

```
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
```

```
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
```

```
[-s $@ ] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
```

```
@echo "generating dependency information for $<"
```

```
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
```

```
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
```

```
[-s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
```

```
$(RM) $@ && ln -s $< $@
```

```
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
```

```
$(RM) $@ && ln -s $*.$(SO).$(SO_TARGET_VERSION) $@
```

```
## End FreeBSD-specific setup
```

## 1.233 go-winio 0.6.0

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# 1.234 josharian-native 0.0.0-20200817173448-b6b71def0850

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# 1.235 kubernetes-api 0.26.1

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Microsoft.PowerShell.Archive

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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)
```

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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<Project Sdk="Microsoft.NET.Sdk">

<PropertyGroup>

<OutputType>Exe</OutputType>

```

<ApplicationManifest>App.manifest</ApplicationManifest>
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
<IlrtTestKind>BuildOnly</IlrtTestKind>
<!-- Test unsupported outside of windows -->
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
<DisableProjectBuild Condition="$(TargetsUnix) == 'true'">true</DisableProjectBuild>
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/Server.Guids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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## 1.239 microsoft-hcsshim 0.9.2

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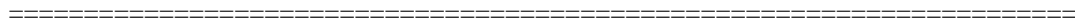
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Protocol Buffers for Go with Gadgets

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## 1.242

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# 1.243 system-componentmodel-composition-registration 4.0.0.0

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PackageManagement

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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ThreadJob  
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## 1.247 system-data-sqlclient 4.7.0

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Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/Server.Guids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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Bit Twiddling Hacks

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```
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new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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```

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```
<Project Sdk="Microsoft.Build.NoTargets">
```

```
<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />
```

```
<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
```

```
<PropertyGroup>
```

```
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
```

```
</PropertyGroup>
```

```
<!--
```

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

```
-->
```

```
<ItemGroup>
```

```
<TpnRepo Include="dotnet/runtime" />
```

```
<TpnRepo Include="dotnet/aspnetcore" />
```

```
<TpnRepo Include="dotnet/installer" />
```

```
<TpnRepo Include="dotnet/roslyn-analyzers" />
```

```
<TpnRepo Include="dotnet/templating" />
```

```
<TpnRepo Include="dotnet/winforms" />
```

```
<TpnRepo Include="dotnet/wpf" />
```

```
<!--
```

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

dotnet/emsdk

dotnet/extensions

dotnet/icu

dotnet/sdk

dotnet/windowsdesktop

dotnet/linker

```
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == "" Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
```

```
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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## 1.250 cyphar-filepath-securejoin 0.2.3

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## system.runtime.windowsruntime.ui.xaml 4.7.0

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson  
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# 1.253 jsimonetti-rtnetlink 0.0.0- 20211022192332-93da33804786

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# 1.257 system-runtime-serialization-primitives

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23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## Patents

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Microsoft has issued a [Patent Promise for .NET Libraries and Runtime Components](/PATENTS.TXT).

```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
<!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
```

```
<IlrtTestKind>BuildOnly</IlrtTestKind>
```

```
<!-- Test unsupported outside of windows -->
```

```
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
```

```
<DisableProjectBuild Condition="$([TargetsUnix] == 'true')>true</DisableProjectBuild>
```

```
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
```

```
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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Use:

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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\*\* Rick Grehan, BYTE Magazine

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\*\* Create:

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## 1.262 spf13-pflag 1.0.5

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
```

```
<ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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## 1.264 go-restful 3.8.0

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Martin Richards  
23 February 2007

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
```

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<Compile Include="Program.cs" />
<Compile Include="../../ServerContracts/Server.CoClasses.cs" />
<Compile Include="../../ServerContracts/Server.Contracts.cs" />
<Compile Include="../../ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>
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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
)
```

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public domain is compatible with GPL.

<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile=\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside  
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file  
in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

<!--

Additional repos that should be included but don't have any third-party-notices files:

- dotnet/efcore
- dotnet/emsdk
- dotnet/extensions
- dotnet/icu
- dotnet/sdk
- dotnet/windowsdesktop
- dotnet/linker

-->

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
```

```
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
```

```
  TpnFile="$(TpnFile)"
```

```
  PotentialTpnPaths="@ (PotentialTpnPath)"
```

```
  TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
```

```
</Target>
```

```
</Project>
```

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<https://github.com/madler/zlib>  
[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson  
seander@cs.stanford.edu

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John R. Hauser  
2018 January 20

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Content: <https://stackoverflow.com/a/769713>

Question author: Bob The Janitor -- <https://stackoverflow.com/users/55102/bob-the-janitor>

Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/runtime/blob/4893732ba881a4fb9023af1d6d4e64bb2a6eddbc/src/tests/sizeondisk/sodbench/SoDBench.cs#L735>

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## 1.280 gopkg.in/olivere/elastic.v2 2.0.12

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# 1.281 euank-go-kmsg-parser

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# Visual Basic Language Design Meeting

February 21,2018

## Agenda

- \* Community Update
- \* Upgrade Project - Discussion
- \* Private Protected - Discussion
- \* Issue [#37 -Champion "Await in Catch and Finally"](<https://github.com/dotnet/vblang/issues/37>)
- \* Issue [#228 - Default property for reading and setting bit flags](<https://github.com/dotnet/vblang/issues/228>) (and others)
- \* [C# proposal: Default interface methods](<https://github.com/dotnet/csharplang/blob/master/proposals/default-interface-methods.md>)

## Community Update

### Introduce?

There has been a request by the community for people to introduce themselves.

This will remain at the discretion of the individual.

### Brice & EF

@BriceLam has volunteered (side project) to maintain a repository for the development of a generator so migrations and reverse engineering work with VB projects.

Kathleen will help publicize.

When the project nears completion, Kathleen will explore best permanent location with Brice and contributors.

Yeah Brice!



### ### MVP Summit

MVP Summit is March 5-8.

#### #### Language Designers Panel

Kathleen will represent VB on the Language Designers Panel.

#### #### Lunch session

There will be a lunch session on Visual Basic. Kathleen determined this odd time with Jeff to avoid placing it opposite a session with likely interest to VB developers. We assume all VB MVPs are also interested in other things.

#### #### Hackathon

Thursday (March 8) at the MVP Summit there will be an MVP Hackathon.

Do we want to organize something?

No, leave it to Brice on the EF generator and community for organization

#### ### Docs

There are some really out of date docs for VB and way too many docs for the docs teams to fix.

Kathleen will discuss with the community and hopefully get some help with this.

#### ### Blogpost with WebAPI example

@KlausLoeffelmann is working on a blog post (with help from @obelink and others) that will illustrate VB working with a VB backend and an Angular front end.

Kathleen is working planning other blog posts.

#### ## Upgrade Project - Discussion

The customer problem: To change the version of VB a project is targeting, you have to edit the .vbproj file. Ick. Extra Ick because VB programmers put high value on simplicity/low ceremony.

The technical problem: 3-4 non-trivial features need to land to fix this. Want to do it, but won't be immediate.

With the delay, do we hold feature announcements or apologize that people have to edit right now?

Kathleen will corral the solution.

Do not hold any announcements. The folks that want new features want them.

#### ## Private Protected - Discussion

Private protected specifies that a member is only visible from code that is both within the same assembly and within a derived class.

The earlier decision was to parallel the IL names with VB styling and use FriendAndProtected and FriendOrProtected. FriendOrProtected would be a pretty listing fix for Protected Friend for symmetry.

For context, in C# this feature was requested loudly by a few people. An agonizing and relatively extreme attempt at a better name and the community accepted that the feature by any name was better than no feature. Thus it is ``private protected`` in C#.

Kathleen did not find an issue on this in VBLang.

During implementation, we messed up. The feature was implemented in VB as ``Private Protected`` (in any order). The feature is currently present, but not announced. Because it is present, we will support ``Private Protected`` even if we did something else.

Clearly the earlier decision was more VB like. But, very few people care about the feature, it exists right now in VB as ``Private Protected``, and coders may hear about the concept via C# blogs so parallel naming may have one advantage.

Decision: Stick with what we've got because we've got it. If people use the feature and there is a push for clearer naming, deal with it then.

## Issue [#37 - Champion "Await in Catch and Finally"](<https://github.com/dotnet/vblang/issues/37>)

Partial discussion because @VSadov not present and he has the most history.

This was considered for an earlier release, but we ran out of time.

In general the work is similar to C#. But VB specific things, GoTo and OnError may make it more difficult.

At least some of the challenging scenarios aren't legal in async methods anyway.

GoTo and OnError seem unlikely in "modern" code that would use Async. Perhaps we could narrow the scenarios to simplify implementation.

Reconsider with Vlad, probably next week.

We should check that this is important and how much work before we commit. Kathleen will see if a prioritization survey at the Summit makes sense and there will be time.

## Issue [#228 - Default property for reading and setting bit flags](<https://github.com/dotnet/vblang/issues/228>) (and others)

Flagged enums have challenges in both C# and VB. In VB they are rather painful. A solution at the API level would be great.

An enum constraint by itself does not allow this to be solved via extension methods. Darn.

Tabled for Kathleen to discuss with API team to see if this is on their radar.

## [C# proposal: Default interface methods](https://github.com/dotnet/csharplang/blob/master/proposals/default-interface-methods.md)

C# has a proposal for default interface members. A compelling scenario for this involves allowing interfaces to change over time without breaking all implementors. The implication is that people will then evolve interfaces, and if VB can't handle this, it will have a serious problem.

C# and Runtime are designed and prototyped (for C# 8 timeframe). The design is not set.

There will still be issues with older compiler versions unable to access interfaces that have changed (C#/VB). So it's not clear how public interfaces will take advantage of this feature.

Talk to @AnthonyDGreen for background.

No action.

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# Statements - Visual Basic

Statements represent executable code.

```
```antlr
Statement
    : LabelDeclarationStatement
    | LocalDeclarationStatement
    | WithStatement
    | SyncLockStatement
    | EventStatement
    | AssignmentStatement
    | InvocationStatement
    | ConditionalStatement
    | LoopStatement
    | ErrorHandlingStatement
    | BranchStatement
    | ArrayHandlingStatement
    | UsingStatement
    | AwaitStatement
    | YieldStatement
    ;
```
```

Note. The Microsoft Visual Basic Compiler only allows statements which start with a keyword or an identifier. Thus, for instance, the invocation statement `"Call (Console).WriteLine"` is allowed, but the invocation statement `"(Console).WriteLine"` is not.

## ## Control Flow

*Control flow* is the sequence in which statements and expressions are executed. The order of execution depends on the particular statement or expression.

For example, when evaluating an addition operator (Section [Addition Operator](expressions.md#addition-operator)), first the left operand is evaluated, then the right operand, and then the operator itself. Blocks are executed (Section [Blocks and Labels](statements.md#blocks-and-labels)) by first executing their first substatement, and then proceeding one by one through the statements of the block.

Implicit in this ordering is the concept of a *control point*, which is the next operation to be executed. When a method is invoked (or "called"), we say it creates an *instance* of the method. A method instance consists of its own copy of the method's parameters and local variables, and its own control point.

## ### Regular Methods

Here is an example of a regular method

```
``vb
Function Test() As Integer
    Console.WriteLine("hello")
    Return 1
End Function
```

```
Dim x = Test() ' invokes the function, prints "hello", assigns 1 to x
``
```

When a regular method is invoked,

1. First an instance of the method is created specific to that invocation. This instance includes a copy of all parameters and local variables of the method.
2. Then all of its parameters are initialized to the supplied values, and all of its local variables to the default values of their types.
3. In the case of a `Function``, an implicit local variable is also initialized called the *function return variable* whose name is the function's name, whose type is the return type of the function and whose initial value is the default of its type.
4. The method instance's control point is then set at the first statement of the method body, and the method body immediately starts to execute from there (Section [Blocks and Labels](statements.md#blocks-and-labels)).

When control flow exits the method body normally - through reaching the `End Function`` or `End Sub`` that mark its end, or through an explicit `Return`` or `Exit`` statement - control flow returns to the caller of the method instance. If there is a function return variable, the result of the invocation is the final value of this variable.

When control flow exits the method body through an unhandled exception, that exception is propagated to the caller.

After control flow has exited, there are no longer any live references to the method instance. If the method instance held the only references to its copy of local variables or parameters, then they may be garbage collected.

### ### Iterator Methods

Iterator methods are used as a convenient way to generate a sequence, one which can be consumed by the `For Each` statement. Iterator methods use the `Yield` statement (Section [Yield Statement](statements.md#yield-statement)) to provide elements of the sequence. (An iterator method with no `Yield` statements will produce an empty sequence). Here is an example of an iterator method:

```
```\nb
Iterator Function Test() As IEnumerable(Of Integer)
    Console.WriteLine("hello")
    Yield 1
    Yield 2
End Function

Dim en = Test()
For Each x In en      ' prints "hello" before the first x
    Console.WriteLine(x) ' prints "1" and then "2"
Next
```\n
```

When an iterator method is invoked whose return type is `IEnumerator(Of T)`,

1. First an instance of the iterator method is created specific to that invocation. This instance includes a copy of all parameters and local variables of the method.
2. Then all of its parameters are initialized to the supplied values, and all of its local variables to the default values of their types.
3. An implicit local variable is also initialized called the *iterator current variable*, whose type is `T` and whose initial value is the default of its type.
4. The method instance's control point is then set at the first statement of the method body.
5. An *iterator object* is then created, associated with this method instance. The iterator object implements the declared return type and has behavior as described below.
6. Control flow is then resumed *immediately* in the caller, and the result of the invocation is the iterator object. Note that this transfer is done without exiting the iterator method instance, and does not cause finally handlers to execute. The method instance is still referenced by the iterator object, and will not be garbage collected so long as there exists a live reference to the iterator object.

When the iterator object's `Current` property is accessed, the *current variable* of the invocation is returned.

When the iterator object's `MoveNext` method is invoked, the invocation does not create a new method instance. Instead the existing method instance is used (and its control point and local variables and parameters) - the instance that was created when the iterator method was first invoked. Control flow resumes execution at the control point of that method instance, and proceeds through the body of the iterator method as normal.

When the iterator object's `Dispose` method is invoked, again the existing method instance is used. Control flow resumes at the control point of that method instance, but then immediately behaves as if an `Exit Function` statement were the next operation.

The above descriptions of behavior for invocation of `MoveNext` or `Dispose` on an iterator object only apply if all previous invocations of `MoveNext` or `Dispose` on that iterator object have already returned to their callers. If they haven't, then the behavior is undefined.

When control flow exits the iterator method body normally -- through reaching the `End Function` that mark its end, or through an explicit `Return` or `Exit` statement -- it must have done so in the context of an invocation of `MoveNext` or `Dispose` function on an iterator object to resume the iterator method instance, and it will have been using the method instance that was created when the iterator method was first invoked. The control point of that instance is left at the `End Function` statement, and control flow resumes in the caller; and if it had been resumed by a call to `MoveNext` then the value `False` is returned to the caller.

When control flow exits the iterator method body through an unhandled exception, then the exception is propagated to the caller, which again will be either an invocation of `MoveNext` or of `Dispose`.

As for the other possible return types of an iterator function,

- \* When an iterator method is invoked whose return type is `IEnumerable(Of T)` for some `T`, an instance is first created -- specific to that invocation of the iterator method -- of all parameters in the method, and they are initialized with the supplied values. The result of the invocation is an object which implements the return type. Should this object's `GetEnumerator` method be called, it creates an instance -- specific to that invocation of `GetEnumerator` -- of all parameters and local variables in the method. It initializes the parameters to the values already saved, and proceeds as for the iterator method above.

- \* When an iterator method is invoked whose return type is the non-generic interface `IEnumerator`, the behavior is exactly as for `IEnumerator(Of Object)`.

- \* When an iterator method is invoked whose return type is the non-generic interface `IEnumerable`, the behavior is exactly as for `IEnumerable(Of Object)`.

### ### Async Methods

Async methods are a convenient way to do long-running work without for example blocking the UI of an application. Async is short for *Asynchronous* - it means that the caller of the async method will resume its execution promptly, but the eventual completion of the async method's instance may happen at some later time in the future. By convention async methods are named with the suffix "Async".

```
```\b
```

```
Async Function TestAsync() As Task(Of String)
```

```
    Console.WriteLine("hello")
```

```
    Await Task.Delay(100)
```

```
    Return "world"
```

```
End Function
```

```
Dim t = TestAsync()      ' prints "hello"
```

```
Console.WriteLine(Await t) ' prints "world"
```

```
```\b
```

Note. Async methods are *not* run on a background thread. Instead they allow a method to suspend itself through the `Await` operator, and schedule itself to be resumed in response to some event.

When an async method is invoked

1. First an instance of the async method is created specific to that invocation. This instance includes a copy of all parameters and local variables of the method.
2. Then all of its parameters are initialized to the supplied values, and all of its local variables to the default values of their types.
3. In the case of an async method with return type `Task(Of T)` for some `T`, an implicit local variable is also initialized called the *task return variable*, whose type is `T` and whose initial value is the default of `T`.
4. If the async method is a `Function` with return type `Task` or `Task(Of T)` for some `T`, then an object of that type implicitly created, associated with the current invocation. This is called an *async object* and represents the future work that will be done by executing the instance of the async method. When control resumes in the caller of this async method instance, the caller will receive this async object as the result of its invocation.
5. The instance's control point is then set at the first statement of the async method body, and immediately starts to execute the method body from there (Section [Blocks and Labels](statements.md#blocks-and-labels)).

Resumption Delegate and Current Caller

As detailed in Section [Await Operator](expressions.md#await-operator), execution of an `Await` expression has the ability to suspend the method instance's control point leaving control flow to go elsewhere. Control flow can later resume at the same instance's control point through invocation of a *resumption delegate*. Note that this suspension is done without exiting the async method, and does not cause finally handlers to execute. The method instance is still referenced by both the resumption delegate and the `Task` or `Task(Of T)` result (if any), and will not be garbage collected so long as there exists a live reference to either delegate or result.

It is helpful to imagine the statement `Dim x = Await WorkAsync()` approximately as syntactic shorthand for the following:

```
```\vb
Dim temp = WorkAsync().GetAwaiter()
If Not temp.IsCompleted Then
    temp.OnCompleted(resumptionDelegate)
    Return [task]
    CONT: ' invocation of 'resumptionDelegate' will resume here
End If
Dim x = temp.GetResult()
```\
```

In the following, the *current caller* of the method instance is defined as either the original caller, or the caller of the resumption delegate, whichever is more recent.

When control flow exits the async method body -- through reaching the `End Sub` or `End Function` that mark its end, or through an explicit `Return` or `Exit` statement, or through an unhandled exception -- the instance's control point is set to the end of the method. Behavior then depends on the return type of the async method.

\* In the case of an `Async Function` with return type `Task`:

1. If control flow exits through an unhandled exception, then the async object's status is set to `TaskStatus.Faulted` and its `Exception.InnerException` property is set to the exception (except: certain implementation-defined exceptions such as `OperationCanceledException` change it to `TaskStatus.Canceled`). Control flow resumes in the current caller.
2. Otherwise, the async object's status is set to `TaskStatus.Completed`. Control flow resumes in the current caller.

(\_\_Note.\_\_ The whole point of Task, and what makes async methods interesting, is that when a task becomes Completed then any methods that were awaiting it will presently have their resumption delegates executed, i.e. they will become unblocked.)

\* In the case of an `Async Function` with return type `Task(Of T)` for some `T`: the behavior is as above, except that in non-exception cases the async object's `Result` property is also set to the final value of the task return variable.

\* In the case of an `Async Sub`:

1. If control flow exits through an unhandled exception, then that exception is propagated to the environment in some implementation-specific manner. Control flow resumes in the current caller.
2. Otherwise, control flow simply resumes in the current caller.

#### #### Async Sub

There is some Microsoft-specific behavior of an `Async Sub`.

If `SynchronizationContext.Current` is `Nothing` at the start of the invocation, then any unhandled exceptions from an Async Sub will be posted to the Threadpool.

If `SynchronizationContext.Current` is not `Nothing` at the start of the invocation, then `OperationStarted()` is invoked on that context before the start of the method and `OperationCompleted()` after the end. Additionally, any unhandled exceptions will be posted to be rethrown on the synchronization context.

This means that in UI applications, for an `Async Sub` that is invoked on the UI thread, any exceptions it fails to handle will be reposted the UI thread.

#### #### Mutable structures in async and iterator methods

Mutable structures in general are considered bad practice, and they are not supported by async or iterator methods. In particular, each invocation of an async or iterator method in a structure will implicitly operate on a *copy* of that structure that is copied at its moment of invocation. Thus, for example,

```
```vb
```

```
Structure S
```

```
    Dim x As Integer
```

```
    Async Sub Mutate()
```

```
        x = 2
```

```
    End Sub
```

```
End Structure
```



```
Dim s As New S With {.x = 1}
s.Mutate()
Console.WriteLine(s.x) ' prints "1"
```
```

### ### Blocks and Labels

A group of executable statements is called a statement block. Execution of a statement block begins with the first statement in the block. Once a statement has been executed, the next statement in lexical order is executed, unless a statement transfers execution elsewhere or an exception occurs.

Within a statement block, the division of statements on logical lines is not significant with the exception of label declaration statements. A label is an identifier that identifies a particular position within the statement block that can be used as the target of a branch statement such as `GoTo`.

```
```antlr
Block
  : Statements*
  ;

LabelDeclarationStatement
  : LabelName ':'
  ;

LabelName
  : Identifier
  | IntLiteral
  ;

Statements
  : Statement? ( ':' Statement? )*
  ;
```
```

Label declaration statements must appear at the beginning of a logical line and labels may be either an identifier or an integer literal. Because both label declaration statements and invocation statements can consist of a single identifier, a single identifier at the beginning of a logical line is always considered a label declaration statement. Label declaration statements must always be followed by a colon, even if no statements follow on the same logical line.

Labels have their own declaration space and do not interfere with other identifiers. The following example is valid and uses the name variable `x` both as a parameter and as a label.

```
```vb
Function F(x As Integer) As Integer
  If x >= 0 Then
    GoTo x
  End If
```
```

```

    x = -x
x:
    Return x
End Function
'''

```

The scope of a label is the body of the method containing it.

For the sake of readability, statement productions that involve multiple substatements are treated as a single production in this specification, even though the substatements may each be by themselves on a labeled line.

### ### Local Variables and Parameters

The preceding sections detail how and when method instances are created, and with them the copies of a method's local variables and parameters. In addition, each time the body of a loop is entered, a new copy is made of each local variable declared inside that loop as described in Section [Loop Statements](statements.md#loop-statements), and the method instance now contains this copy of its local variable rather than the previous copy.

All locals are initialized to their type's default value. Local variables and parameters are always publicly accessible. It is an error to refer to a local variable in a textual position that precedes its declaration, as the following example illustrates:

```

'''vb
Class A
    Private i As Integer = 0

    Sub F()
        i = 1
        Dim i As Integer    ' Error, use precedes declaration.
        i = 2
    End Sub

    Sub G()
        Dim a As Integer = 1
        Dim b As Integer = a ' This is valid.
    End Sub
End Class
'''

```

In the `F` method above, the first assignment to `i` specifically does not refer to the field declared in the outer scope. Rather, it refers to the local variable, and it is in error because it textually precedes the declaration of the variable. In the `G` method, a subsequent variable declaration refers to a local variable declared in an earlier variable declaration within the same local variable declaration.

Each block in a method creates a declaration space for local variables. Names are introduced into this declaration space through local variable declarations in the method body and through the parameter list of the method, which introduces names into the outermost block's declaration space. Blocks do not allow shadowing of names through

nesting: once a name has been declared in a block, the name may not be redeclared in any nested blocks.

Thus, in the following example, the `F` and `G` methods are in error because the name `i` is declared in the outer block and cannot be redeclared in the inner block. However, the `H` and `I` methods are valid because the two `i`'s are declared in separate non-nested blocks.

```
```\nb
Class A
  Sub F()
    Dim i As Integer = 0
    If True Then
      Dim i As Integer = 1
    End If
  End Sub

  Sub G()
    If True Then
      Dim i As Integer = 0
    End If
    Dim i As Integer = 1
  End Sub

  Sub H()
    If True Then
      Dim i As Integer = 0
    End If
    If True Then
      Dim i As Integer = 1
    End If
  End Sub

  Sub I()
    For i As Integer = 0 To 9
      H()
    Next i

    For i As Integer = 0 To 9
      H()
    Next i
  End Sub
End Class
```\n
```

When the method is a function, a special local variable is implicitly declared in the method body's declaration space with the same name as the method representing the return value of the function. The local variable has special name resolution semantics when used in expressions. If the local variable is used in a context that expects an expression classified as a method group, such as an invocation expression, then the name resolves to the function rather than to the local variable. For example:

```

```vb
Function F(i As Integer) As Integer
    If i = 0 Then
        F = 1 ' Sets the return value.
    Else
        F = F(i - 1) ' Recursive call.
    End If
End Function
```

```

The use of parentheses can cause ambiguous situations (such as `F(1)`, where `F` is a function whose return type is a one-dimensional array); in all ambiguous situations, the name resolves to the function rather than the local variable. For example:

```

```vb
Function F(i As Integer) As Integer()
    If i = 0 Then
        F = new Integer(2) { 1, 2, 3 }
    Else
        F = F(i - 1) ' Recursive call, not an index.
    End If
End Function
```

```

When control flow leaves the method body, the value of the local variable is passed back to the invocation expression. If the method is a subroutine, there is no such implicit local variable, and control simply returns to the invocation expression.

### ## Local Declaration Statements

A local declaration statement declares a new local variable, local constant, or static variable. *\*Local variables\** and *\*local constants\** are equivalent to instance variables and constants scoped to the method and are declared in the same way. *\*Static variables\** are similar to ``Shared`` variables and are declared using the ``Static`` modifier.

```

```antlr
LocalDeclarationStatement
    : LocalModifier VariableDeclarators StatementTerminator
    ;

LocalModifier
    : 'Static' | 'Dim' | 'Const'
    ;
```

```

Static variables are locals that retain their value across invocations of the method. Static variables declared within non-shared methods are per instance: each instance of the type that contains the method has its own copy of the static variable. Static variables declared within ``Shared`` methods are per type; there is only one copy of the static

variable for all instances. While local variables are initialized to their type's default value upon each entry into the method, static variables are only initialized to their type's default value when the type or type instance is initialized. Static variables may not be declared in structures or generic methods.

Local variables, local constants, and static variables always have public accessibility and may not specify accessibility modifiers. If no type is specified on a local declaration statement, then the following steps determine the type of the local declaration:

1. If the declaration has a type character, the type of the type character is the type of the local declaration.
2. If the local declaration is a local constant, or if the local declaration is a local variable with an initializer and local variable type inference is being used, the type of the local declaration is inferred from the type of the initializer. If the initializer refers to the local declaration, a compile-time error occurs. (Local constants are required to have initializers.)
3. If strict semantics are not being used, the type of the local declaration statement is implicitly `Object`.
4. Otherwise, a compile-time error occurs.

If no type is specified on a local declaration statement that has an array size or array type modifier, then the type of the local declaration is an array with the specified rank and the previous steps are used to determine the element type of the array. If local variable type inference is used, the type of the initializer must be an array type with the same array shape (i.e. array type modifiers) as the local declaration statement. Note that it is possible that the inferred element type may still be an array type. For example:

```
```\nb
Option Infer On

Module Test
  Sub Main()
    ' Error: initializer is not an array type
    Dim x() = 1

    ' Type is Integer()
    Dim y() = New Integer() {}

    ' Type is Integer()
    Dim z() = New Integer() {}

    ' Type is Integer()()
    Dim a() = New Integer() {}

    ' Error: initializer does not have same array shape
    Dim b() = New Integer(), {}
  End Sub
End Module
```\n
```

If no type is specified on a local declaration statement that has a nullable type modifier, then the type of the local declaration is the nullable version of the inferred type or the inferred type itself if it is a nullable value type already. If the inferred type is not a value type that can be made nullable, a compile-time error occurs. If both a nullable type modifier and an array size or array type modifier are placed on a local declaration statement with no type, then the nullable type modifier is considered to apply to the element type of the array and the previous steps are used to determine the element type.

Variable initializers on local declaration statements are equivalent to assignment statements placed at the textual location of the declaration. Thus, if execution branches over the local declaration statement, the variable initializer is not executed. If the local declaration statement is executed more than once, the variable initializer is executed an equal number of times. Static variables only execute their initializer the first time. If an exception occurs while initializing a static variable, the static variable is considered initialized with the default value of the static variable's type.

The following example shows the use of initializers:

```
```\vb
Module Test
  Sub F()
    Static x As Integer = 5

    Console.WriteLine("Static variable x = " & x)
    x += 1
  End Sub

  Sub Main()
    Dim i As Integer

    For i = 1 to 3
      F()
    Next i

    i = 3
label:
    Dim y As Integer = 8

    If i > 0 Then
      Console.WriteLine("Local variable y = " & y)
      y -= 1
      i -= 1
      GoTo label
    End If
  End Sub
End Module
```\
```

This program prints:

```

```console
Static variable x = 5
Static variable x = 6
Static variable x = 7
Local variable y = 8
Local variable y = 8
Local variable y = 8
```

```

Initializers on static locals are thread-safe and protected against exceptions during initialization. If an exception occurs during a static local initializer, the static local will have its default value and not be initialized. A static local initializer

```

```vb
Module Test
  Sub F()
    Static x As Integer = 5
  End Sub
End Module
```

```

is equivalent to

```

```vb
Imports System.Threading
Imports Microsoft.VisualBasic.CompilerServices

Module Test
  Class InitFlag
    Public State As Short
  End Class

  Private xInitFlag As InitFlag = New InitFlag()

  Sub F()
    Dim x As Integer

    If xInitFlag.State <> 1 Then
      Monitor.Enter(xInitFlag)
      Try
        If xInitFlag.State = 0 Then
          xInitFlag.State = 2
          x = 5
        Else If xInitFlag.State = 2 Then
          Throw New IncompleteInitialization()
        End If
      Finally

```

```

        xInitFlag.State = 1
        Monitor.Exit(xInitFlag)
    End Try
End If
End Sub
End Module
'''

```

Local variables, local constants, and static variables are scoped to the statement block in which they are declared. Static variables are special in that their names may only be used once throughout the entire method. For example, it is not valid to specify two static variable declarations with the same name even if they are in different blocks.

### ### Implicit Local Declarations

In addition to local declaration statements, local variables can also be declared implicitly through use. A simple name expression that uses a name that does not resolve to something else declares a local variable by that name. For example:

```

'''vb
Option Explicit Off

Module Test
    Sub Main()
        x = 10
        y = 20
        Console.WriteLine(x + y)
    End Sub
End Module
'''

```

Implicit local declaration only occurs in expression contexts that can accept an expression classified as a variable. The exception to this rule is that a local variable may not be implicitly declared when it is the target of a function invocation expression, indexing expression, or a member access expression.

Implicit locals are treated as if they are declared at the beginning of the containing method. Thus, they are always scoped to the entire method body, even if declared inside of a lambda expression. For example, the following code:

```

'''vb
Option Explicit Off

Module Test
    Sub Main()
        Dim x = Sub()
            a = 10
        End Sub
        Dim y = Sub()
            Console.WriteLine(a)

```



```

        End Sub

        x()
        y()
    End Sub
End Module
...

```

will print the value `10`. Implicit locals are typed as `Object` if no type character was attached to the variable name; otherwise the type of the variable is the type of the type character. Local variable type inference is not used for implicit locals.

If explicit local declaration is specified by the compilation environment or by `Option Explicit`, all local variables must be explicitly declared and implicit variable declaration is disallowed.

```
## With Statement
```

A `With` statement allows multiple references to an expression's members without specifying the expression multiple times.

```

```antlr
WithStatement
: 'With' Expression StatementTerminator
  Block?
  'End' 'With' StatementTerminator
;
...

```

The expression must be classified as a value and is evaluated once, upon entry into the block. Within the `With` statement block, a member access expression or dictionary access expression starting with a period or an exclamation point is evaluated as if the `With` expression preceded it. For example:

```

```vb
Structure Test
    Public x As Integer

    Function F() As Integer
        Return 10
    End Function
End Structure

Module TestModule
    Sub Main()
        Dim y As Test

        With y
            .x = 10
            Console.WriteLine(.x)

```

```

        .x = .F()
    End With
End Sub
End Module
...

```

It is invalid to branch into a `With` statement block from outside of the block.

### ## SyncLock Statement

A `SyncLock` statement allows statements to be synchronized on an expression, which ensures that multiple threads of execution do not execute the same statements at the same time.

```

```antlr
SyncLockStatement
: 'SyncLock' Expression StatementTerminator
  Block?
  'End' 'SyncLock' StatementTerminator
;
...

```

The expression must be classified as a value and is evaluated once, upon entry to the block. When entering the `SyncLock` block, the `Shared` method `System.Threading.Monitor.Enter` is called on the specified expression, which blocks until the thread of execution has an exclusive lock on the object returned by the expression. The type of the expression in a `SyncLock` statement must be a reference type. For example:

```

```vb
Class Test
    Private count As Integer = 0

    Public Function Add() As Integer
        SyncLock Me
            count += 1
            Add = count
        End SyncLock
    End Function

    Public Function Subtract() As Integer
        SyncLock Me
            count -= 1
            Subtract = count
        End SyncLock
    End Function
End Class
...

```

The example above synchronizes on the specific instance of the class `Test` to ensure that no more than one thread

of execution can add or subtract from the count variable at a time for a particular instance.

The `SyncLock` block is implicitly contained by a `Try` statement whose `Finally` block calls the `Shared` method `System.Threading.Monitor.Exit` on the expression. This ensures the lock is freed even when an exception is thrown. As a result, it is invalid to branch into a `SyncLock` block from outside of the block, and a `SyncLock` block is treated as a single statement for the purposes of `Resume` and `Resume Next`. The above example is equivalent to the following code:

```
```\vb
Class Test
  Private count As Integer = 0

  Public Function Add() As Integer
    Try
      System.Threading.Monitor.Enter(Me)

      count += 1
      Add = count
    Finally
      System.Threading.Monitor.Exit(Me)
    End Try
  End Function

  Public Function Subtract() As Integer
    Try
      System.Threading.Monitor.Enter(Me)

      count -= 1
      Subtract = count
    Finally
      System.Threading.Monitor.Exit(Me)
    End Try
  End Function
End Class
```\n
```

### ## Event Statements

The `RaiseEvent`, `AddHandler`, and `RemoveHandler` statements raise events and handle events dynamically.

```
```\antlr
EventStatement
  : RaiseEventStatement
  | AddHandlerStatement
  | RemoveHandlerStatement
  ;
```\n
```

### ### RaiseEvent Statement

A `RaiseEvent` statement notifies event handlers that a particular event has occurred.

```
```\nRaiseEventStatement\n  : 'RaiseEvent' IdentifierOrKeyword\n    ( OpenParenthesis ArgumentList? CloseParenthesis )? StatementTerminator\n  ;\n```\n
```

The simple name expression in a `RaiseEvent` statement is interpreted as a member lookup on `Me`. Thus, `RaiseEvent x` is interpreted as if it were `RaiseEvent Me.x`. The result of the expression must be classified as an event access for an event defined in the class itself; events defined on base types cannot be used in a `RaiseEvent` statement.

The `RaiseEvent` statement is processed as a call to the `Invoke` method of the event's delegate, using the supplied parameters, if any. If the delegate's value is `Nothing`, no exception is thrown. If there are no arguments, the parentheses may be omitted. For example:

```
```\nb\nClass Raiser\n  Public Event E1(Count As Integer)\n\n  Public Sub Raise()\n    Static RaiseCount As Integer = 0\n\n    RaiseCount += 1\n    RaiseEvent E1(RaiseCount)\n  End Sub\nEnd Class\n\nModule Test\n  Private WithEvents x As Raiser\n\n  Private Sub E1Handler(Count As Integer) Handles x.E1\n    Console.WriteLine("Raise #" & Count)\n  End Sub\n\n  Public Sub Main()\n    x = New Raiser\n    x.Raise() ' Prints "Raise #1".\n    x.Raise() ' Prints "Raise #2".\n    x.Raise() ' Prints "Raise #3".\n  End Sub\nEnd Module\n```\n
```

The class `Raiser` above is equivalent to:

```
```vb
Class Raiser
    Public Event E1(Count As Integer)

    Public Sub Raise()
        Static RaiseCount As Integer = 0
        Dim TemporaryDelegate As E1EventHandler

        RaiseCount += 1

        ' Use a temporary to avoid a race condition.
        TemporaryDelegate = E1Event
        If Not TemporaryDelegate Is Nothing Then
            TemporaryDelegate.Invoke(RaiseCount)
        End If
    End Sub
End Class
```
```

### ### AddHandler and RemoveHandler Statements

Although most event handlers are automatically hooked up through `WithEvents` variables, it may be necessary to dynamically add and remove event handlers at run time. `AddHandler` and `RemoveHandler` statements do this.

```
```antlr
AddHandlerStatement
    : 'AddHandler' Expression Comma Expression StatementTerminator
    ;

RemoveHandlerStatement
    : 'RemoveHandler' Expression Comma Expression StatementTerminator
    ;
```
```

Each statement takes two arguments: the first argument must be an expression that is classified as an event access and the second argument must be an expression that is classified as a value. The second argument's type must be the delegate type associated with the event access. For example:

```
```vb
Public Class Form1
    Public Sub New()
        ' Add Button1_Click as an event handler for Button1's Click event.
        AddHandler Button1.Click, AddressOf Button1_Click
    End Sub
End Class
```
```

```

Private Button1 As Button = New Button()

Sub Button1_Click(sender As Object, e As EventArgs)
    Console.WriteLine("Button1 was clicked!")
End Sub

Public Sub Disconnect()
    RemoveHandler Button1.Click, AddressOf Button1_Click
End Sub
End Class
'''

```

Given an event `E`, the statement calls the relevant `add\_E` or `remove\_E` method on the instance to add or remove the delegate as a handler for the event. Thus, the above code is equivalent to:

```

'''vb
Public Class Form1
    Public Sub New()
        Button1.add_Click(AddressOf Button1_Click)
    End Sub

    Private Button1 As Button = New Button()

    Sub Button1_Click(sender As Object, e As EventArgs)
        Console.WriteLine("Button1 was clicked!")
    End Sub

    Public Sub Disconnect()
        Button1.remove_Click(AddressOf Button1_Click)
    End Sub
End Class
'''

```

## ## Assignment Statements

An assignment statement assigns the value of an expression to a variable. There are several types of assignment.

```

'''antlr
AssignmentStatement
    : RegularAssignmentStatement
    | CompoundAssignmentStatement
    | MidAssignmentStatement
    ;
'''

```

## ### Regular Assignment Statements

A simple assignment statement stores the result of an expression in a variable.

```
```antlr
RegularAssignmentStatement
  : Expression Equals Expression StatementTerminator
  ;
```
```

The expression on the left side of the assignment operator must be classified as a variable or a property access, while the expression on the right side of the assignment operator must be classified as a value. The type of the expression must be implicitly convertible to the type of the variable or property access.

If the variable being assigned into is an array element of a reference type, a run-time check will be performed to ensure that the expression is compatible with the array-element type. In the following example, the last assignment causes a `System.ArrayTypeMismatchException` to be thrown, because an instance of `ArrayList` cannot be stored in an element of a `String` array.

```
```vb
Dim sa(10) As String
Dim oa As Object() = sa
oa(0) = Nothing      ' This is allowed.
oa(1) = "Hello"     ' This is allowed.
oa(2) = New ArrayList() ' System.ArrayTypeMismatchException is thrown.
```
```

If the expression on the left side of the assignment operator is classified as a variable, then the assignment statement stores the value in the variable. If the expression is classified as a property access, then the assignment statement turns the property access into an invocation of the `Set` accessor of the property with the value substituted for the value parameter. For example:

```
```vb
Module Test
  Private PValue As Integer

  Public Property P As Integer
    Get
      Return PValue
    End Get

    Set (Value As Integer)
      PValue = Value
    End Set
  End Property

  Sub Main()
    ' The following two lines are equivalent.
    P = 10
  End Sub
End Module
```
```

```

    set_P(10)
End Sub
End Module
'''

```

If the target of the variable or property access is typed as a value type but not classified as a variable, a compile-time error occurs. For example:

```

'''vb
Structure S
    Public F As Integer
End Structure

Class C
    Private PValue As S

    Public Property P As S
        Get
            Return PValue
        End Get

        Set (Value As S)
            PValue = Value
        End Set
    End Property
End Class

```

```

Module Test
    Sub Main()
        Dim ct As C = New C()
        Dim rt As Object = new C()

        ' Compile-time error: ct.P not classified as variable.
        ct.P.F = 10

        ' Run-time exception.
        rt.P.F = 10
    End Sub
End Module
'''

```

Note that the semantics of the assignment depend on the type of the variable or property to which it is being assigned. If the variable to which it is being assigned is a value type, the assignment copies the value of the expression into the variable. If the variable to which it is being assigned is a reference type, the assignment copies the reference, not the value itself, into the variable. If the type of the variable is `Object``, the assignment semantics are determined by whether the value's type is a value type or a reference type at run time.



\_\_Note.\_\_ For intrinsic types such as `Integer` and `Date`, reference and value assignment semantics are the same because the types are immutable. As a result, the language is free to use reference assignment on boxed intrinsic types as an optimization. From a value perspective, the result is the same.

Because the equals character (`=`) is used both for assignment and for equality, there is an ambiguity between a simple assignment and an invocation statement in situations such as `x = y.ToString()`. In all such cases, the assignment statement takes precedence over the equality operator. This means that the example expression is interpreted as `x = (y.ToString())` rather than `(x = y).ToString()`.

### ### Compound Assignment Statements

A \*compound assignment statement\* takes the form `V op= E` (where `op` is a valid binary operator).

```
```\ntr\nCompoundAssignmentStatement\n  : Expression CompoundBinaryOperator LineTerminator? Expression StatementTerminator\n  ;\n\nCompoundBinaryOperator\n  : '^' '=' | '*' '=' | '/' '=' | '\\\\' '=' | '+' '=' | '-' '='\n  | '&' '=' | '<' '<' '=' | '>' '>' '='\n  ;\n```\n
```

The expression on the left side of the assignment operator must be classified as a variable or property access, while the expression on the right side of the assignment operator must be classified as a value. The compound assignment statement is equivalent to the statement `V = V op E` with the difference that the variable on the left side of the compound assignment operator is only evaluated once. The following example demonstrates this difference:

```
```\nvb\nModule Test\n  Function GetIndex() As Integer\n    Console.WriteLine("Getting index")\n    Return 1\n  End Function\n\n  Sub Main()\n    Dim a(2) As Integer\n\n    Console.WriteLine("Simple assignment")\n    a(GetIndex()) = a(GetIndex()) + 1\n\n    Console.WriteLine("Compound assignment")\n    a(GetIndex()) += 1\n  End Sub\nEnd Module\n```\n
```

The expression `a(GetIndex())` is evaluated twice for simple assignment but only once for compound assignment, so the code prints:

```
```console
Simple assignment
Getting index
Getting index
Compound assignment
Getting index
```
```

### ### Mid Assignment Statement

A `Mid` assignment statement assigns a string into another string. The left side of the assignment has the same syntax as a call to the function `Microsoft.VisualBasic.Strings.Mid`.

```
```antlr
MidAssignmentStatement
: 'Mid' '$'? OpenParenthesis Expression Comma Expression
  ( Comma Expression )? CloseParenthesis Equals Expression StatementTerminator
;
```
```

The first argument is the target of the assignment and must be classified as a variable or a property access whose type is implicitly convertible to and from `String`. The second parameter is the 1-based start position that corresponds to where the assignment should begin in the target string and must be classified as a value whose type must be implicitly convertible to `Integer`. The optional third parameter is the number of characters from the right-side value to assign into the target string and must be classified as a value whose type is implicitly convertible to `Integer`. The right side is the source string and must be classified as a value whose type is implicitly convertible to `String`. The right side is truncated to the length parameter, if specified, and replaces the characters in the left-side string, starting at the start position. If the right side string contained fewer characters than the third parameter, only the characters from the right side string will be copied.

The following example displays `ab123fg`:

```
```vb
Module Test
  Sub Main()
    Dim s1 As String = "abcdefg"
    Dim s2 As String = "1234567"

    Mid$(s1, 3, 3) = s2
    Console.WriteLine(s1)
  End Sub
End Module
```
```

\_\_Note.\_\_ `Mid` is not a reserved word.

## ## Invocation Statements

An invocation statement invokes a method preceded by the optional keyword `Call`. The invocation statement is processed in the same way as the function invocation expression, with some differences noted below. The invocation expression must be classified as a value or void. Any value resulting from the evaluation of the invocation expression is discarded.

If the `Call` keyword is omitted, then the invocation expression must start with an identifier or keyword, or with `.` inside a `With` block. Thus, for instance, "`Call 1.ToString`" is a valid statement but "`1.ToString`" is not. (Note that in an expression context, invocation expressions also need not start with an identifier. For example, "`Dim x = 1.ToString`" is a valid statement).

There is another difference between the invocation statements and invocation expressions: if an invocation statement includes an argument list, then this is always taken as the argument list of the invocation. The following example illustrates the difference:

```
```\nb
Module Test
  Sub Main()
    Call {Function() 15}(0)
    ' error: (0) is taken as argument list, but array is not invocable

    Call ({Function() 15})(0)
    ' valid, since the invocation statement has no argument list

    Dim x = {Function() 15}(0)
    ' valid as an expression, since (0) is taken as an array-indexing

    Call f("a")
    ' error: ("a") is taken as argument list to the invocation of f

    Call f()("a")
    ' valid, since () is the argument list for the invocation of f

    Dim y = f("a")
    ' valid as an expression, since f("a") is interpreted as f()("a")
  End Sub

  Sub f() As Func(Of String,String)
    Return Function(x) x
  End Sub
End Module
```\n
```

```

```antlr
InvocationStatement
: 'Call'? InvocationExpression StatementTerminator
;
```

```

## ## Conditional Statements

Conditional statements allow conditional execution of statements based on expressions evaluated at run time.

```

```antlr
ConditionalStatement
: IfStatement
| SelectStatement
;
```

```

## ### If...Then...Else Statements

An `If...Then...Else` statement is the basic conditional statement.

```

```antlr
IfStatement
: BlockIfStatement
| LineIfThenStatement
;

```

```

BlockIfStatement
: 'If' BooleanExpression 'Then'? StatementTerminator
  Block?
  ElseIfStatement*
  ElseStatement?
  'End' 'If' StatementTerminator
;

```

```

ElseIfStatement
: ElseIf BooleanExpression 'Then'? StatementTerminator
  Block?
;

```

```

ElseStatement
: 'Else' StatementTerminator
  Block?
;

```

```

LineIfThenStatement
: 'If' BooleanExpression 'Then' Statements ( 'Else' Statements )? StatementTerminator
;

```

```

ElseIf
: 'ElseIf
| 'Else' 'If'
;
...

```

Each expression in an `If...Then...Else` statement must be a Boolean expression, as per Section [Boolean Expressions](expressions.md#boolean-expressions). (Note: this does not require the expression to have Boolean type). If the expression in the `If` statement is true, the statements enclosed by the `If` block are executed. If the expression is false, each of the `ElseIf` expressions is evaluated. If one of the `ElseIf` expressions evaluates to true, the corresponding block is executed. If no expression evaluates to true and there is an `Else` block, the `Else` block is executed. Once a block finishes executing, execution passes to the end of the `If...Then...Else` statement.

The line version of the `If` statement has a single set of statements to be executed if the `If` expression is `True` and an optional set of statements to be executed if the expression is `False`. For example:

```

...vb
Module Test
  Sub Main()
    Dim a As Integer = 10
    Dim b As Integer = 20

    ' Block If statement.
    If a < b Then
      a = b
    Else
      b = a
    End If

    ' Line If statement
    If a < b Then a = b Else b = a
  End Sub
End Module
...

```

The line version of the If statement binds less tightly than ":", and its `Else` binds to the lexically nearest preceding `If` that is allowed by the syntax. For example, the following two versions are equivalent:

```

...vb
If True Then _
If True Then Console.WriteLine("a") Else Console.WriteLine("b") _
Else Console.WriteLine("c") : Console.WriteLine("d")

If True Then
  If True Then
    Console.WriteLine("a")
  Else

```

```

    Console.WriteLine("b")
End If
    Console.WriteLine("c") : Console.WriteLine("d")
End If
...

```

All statements other than label declaration statements are allowed inside a line `If` statement, including block statements. However, they may not use LineTerminators as StatementTerminators except inside multi-line lambda expressions. For example:

```

```vb
' Allowed, since it uses : instead of LineTerminator to separate statements
If b Then With New String("a"(0),5) : Console.WriteLine(.Length) : End With

```

```

' Disallowed, since it uses a LineTerminator
If b then With New String("a"(0), 5)
    Console.WriteLine(.Length)
End With

```

```

' Allowed, since it only uses LineTerminator inside a multi-line lambda
If b Then Call Sub()
    Console.WriteLine("a")
End Sub.Invoke()
...

```

### ### Select Case Statements

A `Select Case` statement executes statements based on the value of an expression.

```

```antlr
SelectStatement
: 'Select' 'Case'? Expression StatementTerminator
  CaseStatement*
  CaseElseStatement?
  'End' 'Select' StatementTerminator
;

CaseStatement
: 'Case' CaseClauses StatementTerminator
  Block?
;

CaseClauses
: CaseClause ( Comma CaseClause )*
;

CaseClause
: ( 'Is' LineTerminator? )? ComparisonOperator LineTerminator? Expression

```

```

| Expression ( 'To' Expression )?
;

ComparisonOperator
: '=' | '<' | '>' | '<=' | '>=' | '<' | '>' | '<=' | '>='
;

CaseElseStatement
: 'Case' 'Else' StatementTerminator
  Block?
;
'''

```

The expression must be classified as a value. When a `Select Case` statement is executed, the `Select` expression is evaluated first, and the `Case` statements are then evaluated in order of textual declaration. The first `Case` statement that evaluates to `True` has its block executed. If no `Case` statement evaluates to `True` and there is a `Case Else` statement, that block is executed. Once a block has finished executing, execution passes to the end of the `Select` statement.

Execution of a `Case` block is not permitted to "fall through" to the next switch section. This prevents a common class of bugs that occur in other languages when a `Case` terminating statement is accidentally omitted. The following example illustrates this behavior:

```

'''vb
Module Test
  Sub Main()
    Dim x As Integer = 10

    Select Case x
      Case 5
        Console.WriteLine("x = 5")
      Case 10
        Console.WriteLine("x = 10")
      Case 20 - 10
        Console.WriteLine("x = 20 - 10")
      Case 30
        Console.WriteLine("x = 30")
    End Select
  End Sub
End Module
'''

```

The code prints:

```

'''console
x = 10
'''

```

Although `Case 10` and `Case 20 - 10` select for the same value, `Case 10` is executed because it precedes `Case 20 - 10` textually. When the next `Case` is reached, execution continues after the `Select` statement.

A `Case` clause may take two forms. One form is an optional `Is` keyword, a comparison operator, and an expression. The expression is converted to the type of the `Select` expression; if the expression is not implicitly convertible to the type of the `Select` expression, a compile-time error occurs. If the `Select` expression is `\*E\*`, the comparison operator is `\*Op\*`, and the `Case` expression is `\*E1\*`, the case is evaluated as `\*E OP E1\*`. The operator must be valid for the types of the two expressions; otherwise a compile-time error occurs.

The other form is an expression optionally followed by the keyword `To` and a second expression. Both expressions are converted to the type of the `Select` expression; if either expression is not implicitly convertible to the type of the `Select` expression, a compile-time error occurs. If the `Select` expression is `E`, the first `Case` expression is `E1`, and the second `Case` expression is `E2`, the `Case` is evaluated either as `E = E1` (if no `E2` is specified) or `(E >= E1) And (E <= E2)`. The operators must be valid for the types of the two expressions; otherwise a compile-time error occurs.

### ## Loop Statements

Loop statements allow repeated execution of the statements in their body.

```
```antlr
LoopStatement
  : WhileStatement
  | DoLoopStatement
  | ForStatement
  | ForEachStatement
  ;
```
```

Each time a loop body is entered, a fresh copy is made of all local variables declared in that body, initialized to the previous values of the variables. Any reference to a variable within the loop body will use the most recently made copy. This code shows an example:

```
```vb
Module Test
  Sub Main()
    Dim lambdas As New List(Of Action)
    Dim x = 1

    For i = 1 To 3
      x = i
      Dim y = x
      lambdas.Add(Sub() Console.WriteLine(x & y))
    Next

    For Each lambda In lambdas
      lambda()
    End For
  End Sub
End Module
```
```



```
Next
End Sub
End Module
```
```

The code produces the output:

```
```console
31 32 33
```
```

When the loop body is executed, it uses whichever copy of the variable is current. For example, the statement `Dim y = x`` refers to the latest copy of ``y`` and the original copy of ``x``. And when a lambda is created, it remembers whichever copy of a variable was current at the time it was created. Therefore, each lambda uses the same shared copy of ``x``, but a different copy of ``y``. At the end of the program, when it executes the lambdas, that shared copy of ``x`` that they all refer to is now at its final value 3.

Note that if there are no lambdas or LINQ expressions, then it's impossible to know that a fresh copy is made on loop entry. Indeed, compiler optimizations will avoid making copies in this case. Note too that it's illegal to `GoTo`` into a loop that contains lambdas or LINQ expressions.

### ### While...End While and Do...Loop Statements

A ``While`` or ``Do`` loop statement loops based on a Boolean expression.

```
```antlr
WhileStatement
: 'While' BooleanExpression StatementTerminator
  Block?
  'End' 'While' StatementTerminator
;

DoLoopStatement
: DoTopLoopStatement
| DoBottomLoopStatement
;

DoTopLoopStatement
: 'Do' ( WhileOrUntil BooleanExpression )? StatementTerminator
  Block?
  'Loop' StatementTerminator
;

DoBottomLoopStatement
: 'Do' StatementTerminator
  Block?
  'Loop' WhileOrUntil BooleanExpression StatementTerminator
```
```

```

;
WhileOrUntil
: 'While' | 'Until'
;
'''

```

A `While` loop statement loops as long as the Boolean expression evaluates to true; a `Do` loop statement may contain a more complex condition. An expression may be placed after the `Do` keyword or after the `Loop` keyword, but not after both. The Boolean expression is evaluated as per Section [Boolean Expressions](expressions.md#boolean-expressions). (Note: this does not require the expression to have Boolean type). It is also valid to specify no expression at all; in that case, the loop will never exit. If the expression is placed after `Do`, it will be evaluated before the loop block is executed on each iteration. If the expression is placed after `Loop`, it will be evaluated after the loop block has executed on each iteration. Placing the expression after `Loop` will therefore generate one more loop than placement after `Do`. The following example demonstrates this behavior:

```

'''vb
Module Test
  Sub Main()
    Dim x As Integer

    x = 3
    Do While x = 1
      Console.WriteLine("First loop")
    Loop

    Do
      Console.WriteLine("Second loop")
    Loop While x = 1
  End Sub
End Module
'''

```

The code produces the output:

```

'''console
Second Loop
'''

```

In the case of the first loop, the condition is evaluated before the loop executes. In the case of the second loop, the condition is executed after the loop executes. The conditional expression must be prefixed with either a `While` keyword or an `Until` keyword. The former breaks the loop if the condition evaluates to false, the latter when the condition evaluates to true.

\_\_Note.\_\_ `Until` is not a reserved word.

### For...Next Statements

A ``For...Next`` statement loops based on a set of bounds. A ``For`` statement specifies a loop control variable, a lower bound expression, an upper bound expression, and an optional step value expression. The loop control variable is specified either through an identifier followed by an optional ``As`` clause or an expression.

```
```antlr
```

```
ForStatement
```

```
  : 'For' LoopControlVariable Equals Expression 'To' Expression
    ( 'Step' Expression )? StatementTerminator
    Block?
    ( 'Next' NextExpressionList? StatementTerminator )?
  ;
```

```
LoopControlVariable
```

```
  : Identifier ( IdentifierModifiers 'As' TypeName )?
    | Expression
  ;
```

```
NextExpressionList
```

```
  : Expression ( Comma Expression )*
  ;
```

```
````
```

As per the following rules, the loop control variable refers either to a new local variable specific to this ``For...Next`` statement, or to a pre-existing variable, or to an expression.

- \* If the loop control variable is an identifier with an ``As`` clause, the identifier defines a new local variable of the type specified in the ``As`` clause, scoped to the entire ``For`` loop.

- \* If the loop control variable is an identifier without an ``As`` clause, then the identifier is first resolved using the simple name resolution rules (see Section [Simple Name Expressions](expressions.md#simple-name-expressions)), excepting that this occurrence of the identifier would not in and of itself cause an implicit local variable to be created (Section [Implicit Local Declarations](statements.md#implicit-local-declarations)).

- \* If this resolution succeeds and the result is classified as a variable, then the loop control variable is that pre-existing variable.

- \* If resolution fails, or if resolution succeeds and the result is classified as a type, then:

- \* if local variable type inference is being used, the identifier defines a new local variable whose type is inferred from the bound and step expressions, scoped to the entire ``For`` loop;

- \* if local variable type inference is not being used but implicit local declaration is, then an implicit local variable is created whose scope is the entire method (Section [Implicit Local Declarations](statements.md#implicit-local-declarations)), and the loop control variable refers to this pre-existing variable;

- \* if neither local variable type inference nor implicit local declarations are used, it is an error.

- \* If resolution succeeds with something classified as neither a type nor a variable, it is an error.

- \* If the loop control variable is an expression, the expression must be classified as a variable.

A loop control variable cannot be used by another enclosing `For...Next` statement. The type of the loop control variable of a `For` statement determines the type of the iteration and must be one of:

- \* `Byte`, `SByte`, `UShort`, `Short`, `UInteger`, `Integer`, `ULong`, `Long`, `Decimal`, `Single`, `Double`
- \* An enumerated type
- \* `Object`
- \* A type `T` that has the following operators, where `B` is a type that can be used in a Boolean expression:

```
```\vb
Public Shared Operator >= (op1 As T, op2 As T) As B
Public Shared Operator <= (op1 As T, op2 As T) As B
Public Shared Operator - (op1 As T, op2 As T) As T
Public Shared Operator + (op1 As T, op2 As T) As T
```\
```

The bound and step expressions must be implicitly convertible to the type of the loop control variable and must be classified as values. At compile time, the type of the loop control variable is inferred by choosing the widest type among the lower bound, upper bound, and step expression types. If there is no widening conversion between two of the types, then a compile-time error occurs.

At run time, if the type of the loop control variable is `Object`, then the type of the iteration is inferred the same as at compile time, with two exceptions. First, if the bound and step expressions are all of integral types but have no widest type, then the widest type that encompasses all three types will be inferred. And second, if the type of the loop control variable is inferred to be `String`, `Double` will be inferred instead. If, at run time, no loop control type can be determined or if any of the expressions cannot be converted to the loop control type, a `System.InvalidCastException` will occur. Once a loop control type has been chosen at the beginning of the loop, the same type will be used throughout the iteration, regardless of changes made to the value in the loop control variable.

A `For` statement must be closed by a matching `Next` statement. A `Next` statement without a variable matches the innermost open `For` statement, while a `Next` statement with one or more loop control variables will, from left to right, match the `For` loops that match each variable. If a variable matches a `For` loop that is not the most nested loop at that point, a compile-time error results.

At the beginning of the loop, the three expressions are evaluated in textual order and the lower bound expression is assigned to the loop control variable. If the step value is omitted, it is implicitly the literal `1`, converted to the type of the loop control variable. The three expressions are only ever evaluated at the beginning of the loop.

At the beginning of each loop, the control variable is compared to see if it is greater than the end point if the step expression is positive, or less than the end point if the step expression is negative. If it is, the `For` loop terminates; otherwise the loop block executes. If the loop control variable is not a primitive type, the comparison operator is determined by whether the expression `step >= step - step` is true or false. At the `Next` statement, the step value is added to the control variable and execution returns to the top of the loop.

Note that a new copy of the loop control variable is *not* created on each iteration of the loop block. In this respect, the `For` statement differs from `For Each` (Section [For Each...Next Statements](statements.md#for-eachnext-statements)).

It is not valid to branch into a `For` loop from outside the loop.

### ### For Each...Next Statements

A `For Each...Next` statement loops based on the elements in an expression. A `For Each` statement specifies a loop control variable and an enumerator expression. The loop control variable is specified either through an identifier followed by an optional `As` clause or an expression.

```
```\ntr\nForEachStatement\n  : 'For' 'Each' LoopControlVariable 'In' LineTerminator? Expression StatementTerminator\n    Block?\n    ( 'Next' NextExpressionList? StatementTerminator )?\n  ;\n```\n
```

Following the same rules as `For...Next` statements (Section [For...Next Statements](statements.md#fornext-statements)), the loop control variable refers either to a new local variable specific to this For Each...Next statement, or to a pre-existing variable, or to an expression.

The enumerator expression must be classified as a value and its type must be a collection type or `Object`. If the type of the enumerator expression is `Object`, then all processing is deferred until run-time. Otherwise, a conversion must exist from the element type of the collection to the type of the loop control variable.

The loop control variable cannot be used by another enclosing `For Each` statement. A `For Each` statement must be closed by a matching `Next` statement. A `Next` statement without a loop control variable matches the innermost open `For Each`. A `Next` statement with one or more loop control variables will, from left to right, match the `For Each` loops that have the same loop control variable. If a variable matches a `For Each` loop that is not the most nested loop at that point, a compile-time error occurs.

A type `C` is said to be a \*collection type\* if one of:

- \* All of the following are true:
  - \* `C` contains an accessible instance, shared or extension method with the signature `GetEnumerator()` that returns a type `E`.
  - \* `E` contains an accessible instance, shared or extension method with the signature `MoveNext()` and the return type `Boolean`.
  - \* `E` contains an accessible instance or shared property named `Current` that has a getter. The type of this property is the element type of the collection type.
- \* It implements the interface `System.Collections.Generic.IEnumerable(Of T)`, in which case the element type of the collection is considered to be `T`.
- \* It implements the interface `System.Collections.IEnumerable`, in which case the element type of the collection is considered to be `Object`.

Following is an example of a class that can be enumerated:

```
``vb
Public Class IntegerCollection
    Private integers(10) As Integer

    Public Class IntegerCollectionEnumerator
        Private collection As IntegerCollection
        Private index As Integer = -1

        Friend Sub New(c As IntegerCollection)
            collection = c
        End Sub

        Public Function MoveNext() As Boolean
            index += 1

            Return index <= 10
        End Function

        Public ReadOnly Property Current As Integer
            Get
                If index < 0 OrElse index > 10 Then
                    Throw New System.InvalidOperationException()
                End If

                Return collection.integers(index)
            End Get
        End Property
    End Class
End Class

Public Sub New()
    Dim i As Integer

    For i = 0 To 10
        integers(i) = I
    Next i
End Sub

Public Function GetEnumerator() As IntegerCollectionEnumerator
    Return New IntegerCollectionEnumerator(Me)
End Function
End Class
``
```

Before the loop begins, the enumerator expression is evaluated. If the type of the expression does not satisfy the design pattern, then the expression is cast to `System.Collections.IEnumerable`` or `System.Collections.Generic.IEnumerable(Of T)``. If the expression type implements the generic interface, the

generic interface is preferred at compile-time but the non-generic interface is preferred at run-time. If the expression type implements the generic interface multiple times, the statement is considered ambiguous and a compile-time error occurs.

\_\_Note.\_\_ The non-generic interface is preferred in the late bound case, because picking the generic interface would mean that all the calls to the interface methods would involve type parameters. Since it is not possible to know the matching type arguments at run-time, all such calls would have to be made using late-bound calls. This would be slower than calling the non-generic interface because the non-generic interface could be called using compile-time calls.

`GetEnumerator` is called on the resulting value and the return value of the function is stored in a temporary. Then at the beginning of each iteration, `MoveNext` is called on the temporary. If it returns `False`, the loop terminates. Otherwise, each iteration of the loop is executed as follows:

1. If the loop control variable identified a new local variable (rather than a pre-existing one), then a fresh copy of this local variable is created. For the current iteration, all references within the loop block will refer to this copy.
2. The `Current` property is retrieved, coerced to the type of the loop control variable (regardless of whether the conversion is implicit or explicit), and assigned to the loop control variable.
3. The loop block executes.

\_\_Note.\_\_ There is a slight change in behavior between version 10.0 and 11.0 of the language. Prior to 11.0, a fresh iteration variable was *not* created for each iteration of the loop. This difference is observable only if the iteration variable is captured by a lambda or a LINQ expression which is then invoked after the loop:

```
```\nb  
Dim lambdas As New List(Of Action)  
For Each x In {1,2,3}  
    lambdas.Add(Sub() Console.WriteLine(x))  
Next  
lambdas(0).Invoke()  
lambdas(1).Invoke()  
lambdas(2).Invoke()  
```\n
```

Up to Visual Basic 10.0, this produced a warning at compile-time and printed "3" three times. That was because there was only a single variable "x" shared by all iterations of the loop, and all three lambdas captured the same "x", and by the time the lambdas were executed it then held the number 3. As of Visual Basic 11.0, it prints "1, 2, 3". That is because each lambda captures a different variable "x".

\_\_Note.\_\_ The current element of the iteration is converted to the type of the loop control variable even if the conversion is explicit because there is no convenient place to introduce a conversion operator in the statement. This became particularly troublesome when working with the now-obsolete type `System.Collections.ArrayList`, because its element type is `Object`. This would have required casts in a great many loops, something we felt was not ideal. Ironically, generics enabled the creation of a strongly-typed collection, `System.Collections.Generic.List(Of T)`, which might have made us rethink this design point, but for compatibility's sake, this cannot be changed now.

When the `Next` statement is reached, execution returns to the top of the loop. If a variable is specified after the `Next` keyword, it must be the same as the first variable after the `For Each`. For example, consider the following code:

```
```\vb
Module Test
  Sub Main()
    Dim i As Integer
    Dim c As IntegerCollection = New IntegerCollection()

    For Each i In c
      Console.WriteLine(i)
    Next i
  End Sub
End Module
```\n
```

It is equivalent to the following code:

```
```\vb
Module Test
  Sub Main()
    Dim i As Integer
    Dim c As IntegerCollection = New IntegerCollection()

    Dim e As IntegerCollection.IntegerCollectionEnumerator

    e = c.GetEnumerator()
    While e.MoveNext()
      i = e.Current

      Console.WriteLine(i)
    End While
  End Sub
End Module
```\n
```

If the type `E` of the enumerator implements `System.IDisposable`, then the enumerator is disposed upon exiting the loop by calling the `Dispose` method. This ensures that resources held by the enumerator are released. If the method containing the `For Each` statement does not use unstructured error handling, then the `For Each` statement is wrapped in a `Try` statement with the `Dispose` method called in the `Finally` to ensure cleanup.

Note. The `System.Array` type is a collection type, and since all array types derive from `System.Array`, any array type expression is permitted in a `For Each` statement. For single-dimensional arrays, the `For Each` statement enumerates the array elements in increasing index order, starting with index 0 and ending with index Length - 1. For multidimensional arrays, the indices of the rightmost dimension are increased first.

For example, the following code prints `1 2 3 4`:



```

```vb
Module Test
  Sub Main()
    Dim x(,) As Integer = { { 1, 2 }, { 3, 4 } }
    Dim i As Integer

    For Each i In x
      Console.Write(i & " ")
    Next i
  End Sub
End Module
```

```

It is not valid to branch into a `For Each` statement block from outside the block.

## ## Exception-Handling Statements

Visual Basic supports structured exception handling and unstructured exception handling. Only one style of exception handling may be used in a method, but the `Error` statement may be used in structured exception handling. If a method uses both styles of exception handling, a compile-time error results.

```

```antlr
ErrorHandlingStatement
  : StructuredErrorStatement
  | UnstructuredErrorStatement
  ;
```

```

## ### Structured Exception-Handling Statements

Structured exception handling is a method of handling errors by declaring explicit blocks within which certain exceptions will be handled. Structured exception handling is done through a `Try` statement.

```

```antlr
StructuredErrorStatement
  : ThrowStatement
  | TryStatement
  ;

TryStatement
  : 'Try' StatementTerminator
  Block?
  CatchStatement*
  FinallyStatement?
  'End' 'Try' StatementTerminator
  ;
```

```

```

For example:

```
```vb
Module Test
    Sub ThrowException()
        Throw New Exception()
    End Sub

    Sub Main()
        Try
            ThrowException()
        Catch e As Exception
            Console.WriteLine("Caught exception!")
        Finally
            Console.WriteLine("Exiting try.")
        End Try
    End Sub
End Module
```
```

A `Try` statement is made up of three kinds of blocks: try blocks, catch blocks, and finally blocks. A *try block* is a statement block that contains the statements to be executed. A *catch block* is a statement block that handles an exception. A *finally block* is a statement block that contains statements to be run when the `Try` statement is exited, regardless of whether an exception has occurred and been handled. A `Try` statement, which can only contain one try block and one finally block, must contain at least one catch block or finally block. It is invalid to explicitly transfer execution into a try block except from within a catch block in the same statement.

#### #### Finally Blocks

A `Finally` block is always executed when execution leaves any part of the `Try` statement. No explicit action is required to execute the `Finally` block; when execution leaves the `Try` statement, the system will automatically execute the `Finally` block and then transfer execution to its intended destination. The `Finally` block is executed regardless of how execution leaves the `Try` statement: through the end of the `Try` block, through the end of a `Catch` block, through an `Exit Try` statement, through a `GoTo` statement, or by not handling a thrown exception.

Note that the `Await` expression in an async method, and the `Yield` statement in an iterator method, can cause flow of control to suspend in the async or iterator method instance and resume in some other method instance. However, this is merely a suspension of execution and does not involve exiting the respective async method or iterator method instance, and so does not cause `Finally` blocks to be executed.

It is invalid to explicitly transfer execution into a `Finally` block; it is also invalid to transfer execution out of a `Finally` block except through an exception.

```
```antlr
```

```

FinallyStatement
  : 'Finally' StatementTerminator
  Block?
;
```

```

#### #### Catch Blocks

If an exception occurs while processing the `Try` block, each `Catch` statement is examined in textual order to determine if it handles the exception.

```

```antlr
CatchStatement
  : 'Catch' ( Identifier ( 'As' NonArrayTypeNames )? )?
  ( 'When' BooleanExpression )? StatementTerminator
  Block?
;
```

```

The identifier specified in a `Catch` clause represents the exception that has been thrown. If the identifier contains an `As` clause, then the identifier is considered to be declared within the `Catch` block's local declaration space. Otherwise, the identifier must be a local variable (not a static variable) that was defined in a containing block.

A `Catch` clause with no identifier will catch all exceptions derived from `System.Exception`. A `Catch` clause with an identifier will only catch exceptions whose types are the same as or derived from the type of the identifier. The type must be `System.Exception`, or a type derived from `System.Exception`. When an exception is caught that derives from `System.Exception`, a reference to the exception object is stored in the object returned by the function `Microsoft.VisualBasic.Information.Err`.

A `Catch` clause with a `When` clause will only catch exceptions when the expression evaluates to `True`; the type of the expression must be a Boolean expression as per Section [Boolean Expressions](expressions.md#boolean-expressions). A `When` clause is only applied after checking the type of the exception, and the expression may refer to the identifier representing the exception, as this example demonstrates:

```

```vb
Module Test
  Sub Main()
    Dim i As Integer = 5

    Try
      Throw New ArgumentException()
    Catch e As OverflowException When i = 5
      Console.WriteLine("First handler")
    Catch e As ArgumentException When i = 4
      Console.WriteLine("Second handler")
    Catch When i = 5
      Console.WriteLine("Third handler")
    End Try
  End Sub
End Module
```

```

```
End Sub
End Module
'''
```

This example prints:

```
'''console
Third handler
'''
```

If a `Catch` clause handles the exception, execution transfers to the `Catch` block. At the end of the `Catch` block, execution transfers to the first statement following the `Try` statement. The `Try` statement will not handle any exceptions thrown in a `Catch` block. If no `Catch` clause handles the exception, execution transfers to a location determined by the system.

It is invalid to explicitly transfer execution into a `Catch` block.

The filters in `When` clauses are normally evaluated prior to the exception being thrown. For instance, the following code will print "Filter, Finally, Catch".

```
'''vb
Sub Main()
    Try
        Foo()
    Catch ex As Exception When F()
        Console.WriteLine("Catch")
    End Try
End Sub

Sub Foo()
    Try
        Throw New Exception
    Finally
        Console.WriteLine("Finally")
    End Try
End Sub

Function F() As Boolean
    Console.WriteLine("Filter")
    Return True
End Function
'''
```

However, `Async` and `Iterator` methods cause all `finally` blocks inside them to be executed prior to any filters outside. For instance, if the above code had `Async Sub Foo()`, then the output would be "Finally, Filter, Catch".

#### #### Throw Statement

The `Throw` statement raises an exception, which is represented by an instance of a type derived from `System.Exception`.

```
```antlr
ThrowStatement
  : 'Throw' Expression? StatementTerminator
  ;
```
```

If the expression is not classified as a value or is not a type derived from `System.Exception`, then a compile-time error occurs. If the expression evaluates to a null value at run time, then a `System.NullReferenceException` exception is raised instead.

A `Throw` statement may omit the expression within a catch block of a `Try` statement, as long as there is no intervening finally block. In that case, the statement rethrows the exception currently being handled within the catch block. For example:

```
```vb
Sub Test(x As Integer)
  Try
    Throw New Exception()
  Catch
    If x = 0 Then
      Throw 'OK, rethrows exception from above.
    Else
      Try
        If x = 1 Then
          Throw 'OK, rethrows exception from above.
        End If
      Finally
        Throw 'Invalid, inside of a Finally.
      End Try
    End If
  End Try
End Sub
```
```

#### ### Unstructured Exception-Handling Statements

Unstructured exception handling is a method of handling errors by indicating statements to branch to when an exception occurs. Unstructured exception handling is implemented using three statements: the `Error` statement, the `On Error` statement, and the `Resume` statement.

```
```antlr
UnstructuredErrorStatement
```

```

: ErrorStatement
| OnErrorStatement
| ResumeStatement
;
...

```

For example:

```

``vb
Module Test
  Sub ThrowException()
    Error 5
  End Sub

  Sub Main()
    On Error GoTo GotException

    ThrowException()
  Exit Sub

```

```

GotException:
  Console.WriteLine("Caught exception!")
  Resume Next
End Sub
End Module
...

```

When a method uses unstructured exception handling, a single structured exception handler is established for the entire method that catches all exceptions. (Note that in constructors this handler does not extend over the call to the call to `New` at the beginning of the constructor.) The method then keeps track of the most recent exception-handler location and the most recent exception that has been thrown. At entry to the method, the exception-handler location and the exception are both set to `Nothing`. When an exception is thrown in a method that uses unstructured exception handling, a reference to the exception object is stored in the object returned by the function `Microsoft.VisualBasic.Information.Err`.

Unstructured error handling statements are not allowed in iterator or async methods.

#### Error Statement

An `Error` statement throws a `System.Exception` exception containing a Visual Basic 6 exception number. The expression must be classified as a value and its type must be implicitly convertible to `Integer`.

```

``antlr
ErrorStatement
: 'Error' Expression Statement Terminator
;
...

```

#### #### On Error Statement

An ``On Error`` statement modifies the most recent exception-handling state.

```
```antlr
OnErrorStatement
  : 'On' 'Error' ErrorClause StatementTerminator
  ;

ErrorClause
  : 'GoTo' '-' 'I'
  | 'GoTo' '0'
  | GoToStatement
  | 'Resume' 'Next'
  ;
```
```

It may be used in one of four ways:

- \* ``On Error GoTo -1`` resets the most recent exception to ``Nothing``.
- \* ``On Error GoTo 0`` resets the most recent exception-handler location to ``Nothing``.
- \* ``On Error GoTo LabelName`` establishes the label as the most recent exception-handler location. This statement cannot be used in a method that contains a lambda or query expression.
- \* ``On Error Resume Next`` establishes the ``Resume Next`` behavior as the most recent exception-handler location.

#### #### Resume Statement

A ``Resume`` statement returns execution to the statement that caused the most recent exception.

```
```antlr
ResumeStatement
  : 'Resume' ResumeClause? StatementTerminator
  ;

ResumeClause
  : 'Next'
  | LabelName
  ;
```
```

If the ``Next`` modifier is specified, execution returns to the statement that would have been executed after the statement that caused the most recent exception. If a label name is specified, execution returns to the label.

Because the `SyncLock` statement contains an implicit structured error-handling block, `Resume` and `Resume Next` have special behaviors for exceptions that occur in `SyncLock` statements. `Resume` returns execution to the beginning of the `SyncLock` statement, while `Resume Next` returns execution to the next statement following the `SyncLock` statement. For example, consider the following code:

```
```\nb
Class LockClass
End Class

Module Test
  Sub Main()
    Dim FirstTime As Boolean = True
    Dim Lock As LockClass = New LockClass()

    On Error GoTo Handler

    SyncLock Lock
      Console.WriteLine("Before exception")
      Throw New Exception()
      Console.WriteLine("After exception")
    End SyncLock

    Console.WriteLine("After SyncLock")
    Exit Sub

  Handler:
    If FirstTime Then
      FirstTime = False
      Resume
    Else
      Resume Next
    End If
  End Sub
End Module
```\n
```

It prints the following result.

```
```\nconsole
Before exception
Before exception
After SyncLock
```\n
```

The first time through the `SyncLock` statement, `Resume` returns execution to the beginning of the `SyncLock` statement. The second time through the `SyncLock` statement, `Resume Next` returns execution to the end of the `SyncLock` statement. `Resume` and `Resume Next` are not allowed within a `SyncLock` statement.



In all cases, when a `Resume` statement is executed, the most recent exception is set to `Nothing`. If a `Resume` statement is executed with no most recent exception, the statement raises a `System.Exception` exception containing the Visual Basic error number `20` (Resume without error).

## ## Branch Statements

Branch statements modify the flow of execution in a method. There are six branch statements:

1. A `GoTo` statement causes execution to transfer to the specified label in the method. It is not allowed to `GoTo` into a `Try`, `Using`, `SyncLock`, `With`, `For` or `For Each` block, nor into any loop block if a local variable of that block is captured in a lambda or LINQ expression.
2. An `Exit` statement transfers execution to the next statement after the end of the immediately containing block statement of the specified kind. If the block is the method block, then control flow exits the method as described in Section [Control Flow](statements.md#control-flow). If the `Exit` statement is not contained within the kind of block specified in the statement, a compile-time error occurs.
3. A `Continue` statement transfers execution to the end of the immediately containing block loop statement of the specified kind. If the `Continue` statement is not contained within the kind of block specified in the statement, a compile-time error occurs.
4. A `Stop` statement causes a debugger exception to occur.
5. An `End` statement terminates the program. Finalizers are run before shutdown, but the finally blocks of any currently executing `Try` statements are not executed. This statement may not be used in programs that are not executable (for example, DLLs).
6. A `Return` statement with no expression is equivalent to an `Exit Sub` or `Exit Function` statement. A `Return` statement with an expression is only allowed in a regular method that is a function, or in an async method that is a function with return type `Task(Of T)` for some `T`. The expression must be classified as a value which is implicitly convertible to the *function return variable* (in the case of regular methods) or to the *task return variable* (in the case of async methods). Its behavior is to evaluate its expression, then store it in the return variable, then execute an implicit `Exit Function` statement.

```
```\ntr
```

```
BranchStatement
```

```
  : GoToStatement  
  | ExitStatement  
  | ContinueStatement  
  | StopStatement  
  | EndStatement  
  | ReturnStatement  
  ;
```

```
GoToStatement
```

```
  : 'GoTo' LabelName StatementTerminator  
  ;
```

```
ExitStatement
```

```
  : 'Exit' ExitKind StatementTerminator  
  ;
```

```
ExitKind
: 'Do' | 'For' | 'While' | 'Select' | 'Sub' | 'Function' | 'Property' | 'Try'
;
```

```
ContinueStatement
: 'Continue' ContinueKind StatementTerminator
;
```

```
ContinueKind
: 'Do' | 'For' | 'While'
;
```

```
StopStatement
: 'Stop' StatementTerminator
;
```

```
EndStatement
: 'End' StatementTerminator
;
```

```
ReturnStatement
: 'Return' Expression? StatementTerminator
;
```
```

#### ## Array-Handling Statements

Two statements simplify working with arrays: `ReDim` statements and `Erase` statements.

```
```antlr
ArrayHandlingStatement
: RedimStatement
| EraseStatement
;
```
```

#### ### ReDim Statement

A `ReDim` statement instantiates new arrays.

```
```antlr
RedimStatement
: 'ReDim' 'Preserve'? RedimClauses StatementTerminator
;
```

```
RedimClauses
: RedimClause ( Comma RedimClause )*
;
```

```

RedimClause
    : Expression ArraySizeInitializationModifier
    ;
...

```

Each clause in the statement must be classified as a variable or a property access whose type is an array type or `Object`, and be followed by a list of array bounds. The number of the bounds must be consistent with the type of the variable; any number of bounds is allowed for `Object`. At run time, an array is instantiated for each expression from left to right with the specified bounds and then assigned to the variable or property. If the variable type is `Object`, the number of dimensions is the number of dimensions specified, and the array element type is `Object`. If the given number of dimensions is incompatible with the variable or property at run time a compile-time error occurs. For example:

```

...vb
Module Test
    Sub Main()
        Dim o As Object
        Dim b() As Byte
        Dim i(,) As Integer

        ' The next two statements are equivalent.
        ReDim o(10,30)
        o = New Object(10, 30) {}

        ' The next two statements are equivalent.
        ReDim b(10)
        b = New Byte(10) {}

        ' Error: Incorrect number of dimensions.
        ReDim i(10, 30, 40)
    End Sub
End Module
...

```

If the `Preserve` keyword is specified, then the expressions must also be classifiable as a value, and the new size for each dimension except for the rightmost one must be the same as the size of the existing array. The values in the existing array are copied into the new array: if the new array is smaller, the existing values are discarded; if the new array is bigger, the extra elements will be initialized to the default value of the element type of the array. For example, consider the following code:

```

...vb
Module Test
    Sub Main()
        Dim x(5, 5) As Integer

        x(3, 3) = 3
    End Sub
End Module
...

```

```

    ReDim Preserve x(5, 6)
    Console.WriteLine(x(3, 3) & ", " & x(3, 6))
End Sub
End Module
...

```

It prints the following result:

```

```console
3, 0
...

```

If the existing array reference is a null value at run time, no error is given. Other than the rightmost dimension, if the size of a dimension changes, a `System.ArrayTypeMismatchException`` will be thrown.

Note. `Preserve`` is not a reserved word.

### ### Erase Statement

An `Erase`` statement sets each of the array variables or properties specified in the statement to `Nothing``. Each expression in the statement must be classified as a variable or property access whose type is an array type or `Object``. For example:

```

```vb
Module Test
    Sub Main()
        Dim x() As Integer = New Integer(5) {}

        ' The following two statements are equivalent.
        Erase x
        x = Nothing
    End Sub
End Module
...

```

```

```antlr
EraseStatement
: 'Erase' EraseExpressions StatementTerminator
;

EraseExpressions
: Expression ( Comma Expression )*
;
...

```

## Using statement

Instances of types are automatically released by the garbage collector when a collection is run and no live references to the instance are found. If a type holds on a particularly valuable and scarce resource (such as database connections or file handles), it may not be desirable to wait until the next garbage collection to clean up a particular instance of the type that is no longer in use. To provide a lightweight way of releasing resources before a collection, a type may implement the `System.IDisposable` interface. A type that does so exposes a `Dispose` method that can be called to force valuable resources to be released immediately, as such:

```
```\vb
Module Test
  Sub Main()
    Dim x As DBConnection = New DBConnection(...)

    ' Do some work
    ...

    x.Dispose() ' Free the connection
  End Sub
End Module
```\n
```

The `Using` statement automates the process of acquiring a resource, executing a set of statements, and then disposing of the resource. The statement can take two forms: in one, the resource is a local variable declared as a part of the statement and treated as a regular local variable declaration statement; in the other, the resource is the result of an expression.

```
```\antlr
UsingStatement
: 'Using' UsingResources StatementTerminator
  Block?
'End' 'Using' StatementTerminator
;

UsingResources
: VariableDeclarators
| Expression
;
```\n
```

If the resource is a local variable declaration statement then the type of the local variable declaration must be a type that can be implicitly converted to `System.IDisposable`. The declared local variables are read-only, scoped to the `Using` statement block and must include an initializer. If the resource is the result of an expression then the expression must be classified as a value and must be of a type that can be implicitly converted to `System.IDisposable`. The expression is only evaluated once, at the beginning of the statement.

The `Using` block is implicitly contained by a `Try` statement whose finally block calls the method `IDisposable.Dispose` on the resource. This ensures the resource is disposed even when an exception is thrown. As a result, it is invalid to branch into a `Using` block from outside of the block, and a `Using` block is treated as a single statement for the purposes of `Resume` and `Resume Next`. If the resource is `Nothing`, then no call to `Dispose` is

made. Thus, the example:

```
```\nb
Using f As C = New C()
...
End Using
```\n
```

is equivalent to:

```
```\nb
Dim f As C = New C()
Try
...
Finally
    If f IsNot Nothing Then
        f.Dispose()
    End If
End Try
```\n
```

A `Using`` statement that has a local variable declaration statement may acquire multiple resources at a time, which is equivalent to nested `Using`` statements. For example, a `Using`` statement of the form:

```
```\nb
Using r1 As R = New R(), r2 As R = New R()
    r1.F()
    r2.F()
End Using
```\n
```

is equivalent to:

```
```\nb
Using r1 As R = New R()
    Using r2 As R = New R()
        r1.F()
        r2.F()
    End Using
End Using
```\n
```

## ## Await Statement

An await statement has the same syntax as an await operator expression (Section [Await Operator](expressions.md#await-operator)), is allowed only in methods that also allow await expressions, and has the same behavior as an await operator expression.

However, it may be classified as either a value or void. Any value resulting from evaluation of the await operator expression is discarded.

```
```antlr
AwaitStatement
  : AwaitOperatorExpression StatementTerminator
  ;
```
```

## ## Yield Statement

Yield statements are related to iterator methods, which are described in Section [Iterator Methods](statements.md#iterator-methods).

```
```antlr
YieldStatement
  : 'Yield' Expression StatementTerminator
  ;
```
```

`Yield` is a reserved word if the immediately enclosing method or lambda expression in which it appears has an `Iterator` modifier, and if the `Yield` appears after that `Iterator` modifier; it is unreserved elsewhere. It is also unreserved in preprocessor directives. The yield statement is only allowed in the body of a method or lambda expression where it is a reserved word. Within the immediately enclosing method or lambda, the yield statement may not occur inside the body of a `Catch` or `Finally` block, nor inside the body of a `SyncLock` statement.

The yield statement takes a single expression which must be classified as a value and whose type is implicitly convertible to the type of the *iterator current variable* (Section [Iterator Methods](statements.md#iterator-methods)) of its enclosing iterator method.

Control flow only ever reaches a `Yield` statement when the `MoveNext` method is invoked on an iterator object. (This is because an iterator method instance only ever executes its statements due to the `MoveNext` or `Dispose` methods being called on an iterator object; and the `Dispose` method will only ever execute code in `Finally` blocks, where `Yield` is not allowed).

When a `Yield` statement is executed, its expression is evaluated and stored in the *iterator current variable* of the iterator method instance associated with that iterator object. The value `True` is returned to the invoker of `MoveNext`, and the control point of this instance stops advancing until the next invocation of `MoveNext` on the iterator object.

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Visual Basic Language Specification

=====

\_\_Version 11\_\_

(This document is also available for download:

[vb.pdf](http://ljw1004.github.io/vbspec/Visual%20Basic%20Language%20Specification.pdf?raw=true) and  
[vb.docx](http://ljw1004.github.io/vbspec/Visual%20Basic%20Language%20Specification.docx?raw=true))

- \* [Introduction](introduction.md#introduction)
- \* [Grammar Notation](introduction.md#grammar-notation)
- \* [Compatibility](introduction.md#compatibility)
- \* [Lexical Grammar](lexical-grammar.md#lexical-grammar)
- \* [Characters and Lines](lexical-grammar.md#characters-and-lines)
- \* [Identifiers](lexical-grammar.md#identifiers)
- \* [Keywords](lexical-grammar.md#keywords)
- \* [Literals](lexical-grammar.md#literals)
- \* [Separators](lexical-grammar.md#separators)
- \* [Operator Characters](lexical-grammar.md#operator-characters)
- \* [Preprocessing Directives](preprocessing-directives.md#preprocessing-directives)
- \* [Conditional Compilation](preprocessing-directives.md#conditional-compilation)
- \* [External Source Directives](preprocessing-directives.md#external-source-directives)
- \* [Region Directives](preprocessing-directives.md#region-directives)
- \* [External Checksum Directives](preprocessing-directives.md#external-checksum-directives)
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- \* [Delegates](types.md#delegates)
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  - \* [Documentation comments example](documentation-comments.md#documentation-comments-example)
- \* Grammar: [vb.html](http://ljw1004.github.io/vbspec/vb.html). Or download in ANTLR format: [vb.g4](http://ljw1004.github.io/vbspec/vb.g4?raw=true).

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Found in path(s):

- \* /opt/cola/permits/1572134013\_1677066350.2423508/0/vblang-main-zip/vblang-main/spec/README.md

# 1.286 sql-server 4.0.17763.1

## 1.286.1 Available under license :

CityHash

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More information: <http://google-opensource.blogspot.jp/2011/04/introducing-cityhash.html>

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Some alternate data structures provided by JSR-166e

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Please feel free to re-implement this benchmark in any language you

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Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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h/SoDBench.cs#L738

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    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
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    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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```

package spec

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

```
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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
```

```
URL string `json:"url,omitempty"`  
}
```

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## 1.305 gopkg.in-yaml 2.4.0

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# 1.306 intern 1.0.0

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## 1.308 system-data-oledb 4.7.0

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Martin Richards  
23 February 2007

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson  
seander@cs.stanford.edu

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

<!--

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

dotnet/emsdk

dotnet/extensions

dotnet/icu

dotnet/sdk

dotnet/windowsdesktop

dotnet/linker

-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
  TpnFile="$(TpnFile)"
  PotentialTpnPaths="@ (PotentialTpnPath)"
  TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

</Project>

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson  
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## 1.311 system-servicemodel-primitives 4.0.0.0

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Additional -

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File: PSReadLine  
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<https://github.com/lzybkr/PSReadLine>

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File: Hashtables from ConvertFrom-json  
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<https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h>

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PackageManagement  
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## 1.315 go-restful 3.10.1

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## 1.318 mergo 0.3.13

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

# 1.319 microsoft-build-tasks-core

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## 1.322 nanoframework.system.device.i2c 1.1.9

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## 1.323 github.com/cyphar/filepath-securejoin

### 0.2.3

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# 1.324 docker 20.10.18+incompatible

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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Microsoft.PowerShell.Archive

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File: PSReadLine  
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<https://github.com/PowerShell/PSReadLine>

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## 27dd8689420f

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### 0.0.0-20200406174449-d9cfd743a15e

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Martin Richards  
23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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John R. Hauser  
2018 January 20

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    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
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Martin Richards

23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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## 1.344 logrus 1.8.1

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# 1.346 netlink 1.4.1

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## 1.347 easyjson 0.7.7

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# 1.350 properties 1.8.7

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# 1.352 system-reflection-context 4.0.0.0

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Martin Richards  
23 February 2007

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
```

```

<!-- Test unsupported outside of windows -->
<TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
<DisableProjectBuild Condition="$(TargetsUnix) == 'true'">true</DisableProjectBuild>
<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
<UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
  <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
  <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

```

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Use:

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Use:

<https://github.com/mono/mono/blob/a34c9c79c07156797499b6ed2ce43c5897263b57/mono/benchmark/logic.cs>

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# 1.358 x-sys 0.0.0-20211117180635- dee7805ff2e1

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## 1.359 x-text 0.6.0

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