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Contents

1.1 x-crypto v0.0.0-20200622213623-75b288015ac9

1.1.1 Available under license

1.2 intern 1.0.0

1.2.1 Available under license

1.3 go-yaml 3.0.1

1.3.1 Available under license

1.4 apapsch-go-jsonmerge 2.0.0

1.4.1 Available under license

1.5 netlink 1.7.2

1.5.1 Available under license

1.6 httpsnoop 1.0.4

1.6.1 Available under license

1.7 go-isatty 0.0.20

1.7.1 Available under license

1.8 oapi-codegen-runtime 1.1.1

1.8.1 Available under license

1.9 google-uuid 1.6.0

1.9.1 Available under license

1.10 sqlx 1.4.0

1.10.1 Available under license

1.11 jsimonetti-rtnetlink 1.4.2

1.11.1 Available under license

1.12 masterminds-semver 3.3.1

1.12.1 Available under license

1.13 auto-sdk 1.1.0

1.13.1 Available under license

1.14 easyjson 0.9.0

1.14.1 Available under license

1.15 go-digest 1.0.0

1.15.1 Available under license

1.16 stdr 1.2.2

1.16.1 Available under license

1.17 reference 0.6.0

1.17.1 Available under license

1.18 deepcopy 0.0.0-20170929034955-c48cc78d4826

1.18.1 Available under license

1.19 docker-image-spec 1.3.1

1.19.1 Available under license

1.20 socket 0.5.1

1.20.1 Available under license

1.21 native 1.1.0

1.21.1 Available under license

1.22 marshmallow 1.1.5

1.22.1 Available under license

1.23 uio 0.0.0-20240224005618-d2acac8f3701

1.23.1 Available under license

1.24 netns 0.0.5

1.24.1 Available under license

1.25 go-iptables 0.8.0

1.25.1 Available under license

1.26 dhcp 0.0.0-20250109001534-8abf58130905

1.26.1 Available under license

1.27 go-colorable 0.1.14

1.27.1 Available under license

1.28 gorilla-mux 1.8.1

1.28.1 Available under license

1.29 gorilla-websocket 1.5.3

1.29.1 Available under license

1.30 chi 5.2.1

1.30.1 Available under license

1.31 errors 0.9.1

1.31.1 Available under license

1.32 gogo-protobuf 1.3.2

1.32.1 Available under license

1.33 go-units 0.5.0

- 1.33.1 Available under license
- 1.34 logr 1.4.2**
 - 1.34.1 Available under license
- 1.35 go-connections 0.5.0**
 - 1.35.1 Available under license
- 1.36 ethtool 0.5.10**
 - 1.36.1 Available under license
- 1.37 x-sys 0.31.0**
 - 1.37.1 Available under license
- 1.38 x-sync 0.12.0**
 - 1.38.1 Available under license
- 1.39 x-net 0.37.0**
 - 1.39.1 Available under license
- 1.40 otel-metric 1.35.0**
 - 1.40.1 Available under license
- 1.41 otel 1.35.0**
 - 1.41.1 Available under license
- 1.42 otel-trace 1.35.0**
 - 1.42.1 Available under license
- 1.43 contrib-instrumentation-net-http-otelhttp 0.60.0**
 - 1.43.1 Available under license
- 1.44 x-exp 0.0.0-20250305212735-054e65f0b394**
 - 1.44.1 Available under license
- 1.45 image-spec 1.1.1**
 - 1.45.1 Available under license
- 1.46 swag 0.23.1**
 - 1.46.1 Available under license
- 1.47 go-openapi-jsonpointer 0.21.1**
 - 1.47.1 Available under license
- 1.48 zerolog 1.34.0**
 - 1.48.1 Available under license
- 1.49 containernetworking-plugins 1.6.2**
 - 1.49.1 Available under license
- 1.50 pierrec-lz4 4.1.22**
 - 1.50.1 Available under license
- 1.51 netlink 1.3.0**
 - 1.51.1 Available under license
- 1.52 docker 28.0.1+incompatible**
 - 1.52.1 Available under license

1.53 x-sys 0.33.0

1.53.1 Available under license

1.54 x-term 0.32.0

1.54.1 Available under license

1.55 oasdiff-yaml 0.0.0-20250309154309-f31be36b4037

1.55.1 Available under license

1.56 oasdiff-yaml3 0.0.0-20250309153720-d2182401db90

1.56.1 Available under license

1.57 gosqlite 1.14.28

1.57.1 Available under license

1.58 golang 1.23.10

1.58.1 Available under license

1.59 go-chi-httplog 2.1.1

1.59.1 Available under license

1.60 kin-openapi 0.130.0

1.60.1 Available under license

1.61 oapi-codegen-nethttp-middleware 1.0.2

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1.10 sqlx 1.4.0

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1.11 jsimonetti-rtnetlink 1.4.2

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1.12 masterminds-semver 3.3.1

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1.13 auto-sdk 1.1.0

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```
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```

```
package version
```

```
// Collection is a type that implements the sort.Interface interface
```

```
// so that versions can be sorted.
```

```
type Collection []*Version
```

```
func (v Collection) Len() int {  
    return len(v)  
}
```

```
func (v Collection) Less(i, j int) bool {  
    return v[i].LessThan(v[j])  
}
```

```
func (v Collection) Swap(i, j int) {  
    v[i], v[j] = v[j], v[i]  
}
```

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package version

```
import (  
    "reflect"  
    "sort"  
    "testing"  
)
```

```

func TestCollection(t *testing.T) {
    versionsRaw := []string{
        "1.1.1",
        "1.0",
        "1.2",
        "2",
        "0.7.1",
    }

    versions := make([]*Version, len(versionsRaw))
    for i, raw := range versionsRaw {
        v, err := NewVersion(raw)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        versions[i] = v
    }

    sort.Sort(Collection(versions))

    actual := make([]string, len(versions))
    for i, v := range versions {
        actual[i] = v.String()
    }

    expected := []string{
        "0.7.1",
        "1.0.0",
        "1.1.1",
        "1.2.0",
        "2.0.0",
    }

    if !reflect.DeepEqual(actual, expected) {
        t.Fatalf("bad: %#v", actual)
    }
}

name: go-tests

on: [push]

env:
    TEST_RESULTS: /tmp/test-results

jobs:

```

```

go-tests:
  runs-on: ubuntu-latest
  strategy:
    matrix:
      go-version: [ 1.15.3, 1.19 ]

  steps:
    - name: Setup go
      uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
      with:
        go-version: ${ matrix.go-version }

    - name: Checkout code
      uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683 # v4.2.2

    - name: Create test directory
      run: |
        mkdir -p ${ env.TEST_RESULTS }

    - name: Download go modules
      run: go mod download

    - name: Cache / restore go modules
      uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
      with:
        path: |
          ~/go/pkg/mod
        key: ${ runner.os }-go-${ hashFiles('**/go.sum') }
        restore-keys: |
          ${ runner.os }-go-

    # Check go fmt output because it does not report
    non-zero when there are fmt changes
    - name: Run gofmt
      run: |
        go fmt ./...
        files=$(go fmt ./...)
        if [ -n "$files" ]; then
          echo "The following file(s) do not conform to go fmt:"
          echo "$files"
          exit 1
        fi

    # Install gotestsum with go get for 1.15.3; otherwise default to go install
    - name: Install gotestsum
      run: |
        GTS="gotest.tools/gotestsum@v1.8.2"
        # We use the same error message prefix in either failure case, so just define it once here.

```



```

ERROR="Failed to install $GTS"
# First try to 'go install', if that fails try 'go get'...
go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
# Check that the gotestsum command was actually installed in the path...
command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
echo "OK: Command 'gotestsum' installed ($GTS)"

- name: Run go tests
run: |
    PACKAGE_NAMES=$(go list ./...)
    gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

# Save coverage report parts
- name: Upload and save artifacts
uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3
with:
    name: Test Results
    path: ${ env.TEST_RESULTS }
    Apache License
    Version 2.0, January 2004
    http://www.apache.org/licenses/

```

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Versioning Library for Go

![Build Status](https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg)
[!GoDoc](https://godoc.org/github.com/hashicorp/go-version?status.svg)(https://godoc.org/github.com/hashicorp/go-version)

go-version is a library for parsing versions and version constraints, and verifying versions against a set of constraints. go-version can sort a collection of versions properly, handles prerelease/beta versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](http://semver.org/).

Installation and Usage

Package documentation can be found on
[GoDoc](<http://godoc.org/github.com/hashicorp/go-version>).

Installation can be done with a normal `go get`:

```
...  
$ go get github.com/hashicorp/go-version  
...
```

Version Parsing and Comparison

```
```go  
v1, err := version.NewVersion("1.2")
v2, err := version.NewVersion("1.5+metadata")

// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
// that returns an int allowing easy >=, <=, etc.
if v1.LessThan(v2) {
 fmt.Printf("%s is less than %s", v1, v2)
}
```
```

Version Constraints

```
```go  
v1, err := version.NewVersion("1.2")

// Constraints example.
constraints, err := version.NewConstraint(">= 1.0, < 1.4")
if constraints.Check(v1) {
 fmt.Printf("%s satisfies constraints %s", v1, constraints)
}
```
```

Version Sorting

```
```go  
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
 v, _ := version.NewVersion(raw)
 versions[i] = v
}
```
```

```
// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
```
```

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package version

import (

```

"encoding/json"
"fmt"
"reflect"
"testing"
)

```

```

func TestNewVersion(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", false},
 {"v1.7rc2", false},
 {"1.0-", false},
 }

 for _, tc := range cases {
 _, err := NewVersion(tc.version)
 if tc.err && err == nil {
 t.Fatalf("expected error for version:
 %q", tc.version)
 } else if !tc.err && err != nil {
 t.Fatalf("error for version %q: %s", tc.version, err)
 }
 }
}

```

```

func TestNewSemver(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", true},
 {"v1.7rc2", true},
 {"1.0-", true},
 }

 for _, tc := range cases {
 _, err := NewSemver(tc.version)
 if tc.err && err == nil {
 t.Fatalf("expected error for version: %q", tc.version)
 } else
 if !tc.err && err != nil {
 t.Fatalf("error for version %q: %s", tc.version, err)
 }
 }
}

func TestCore(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 }{
 {"1.2.3", "1.2.3"},
 }
}

```

```

{"2.3.4-alpha1", "2.3.4"},
{"3.4.5alpha1", "3.4.5"},
{"1.2.3-2", "1.2.3"},
{"4.5.6-beta1+meta", "4.5.6"},
{"5.6.7.1.2.3", "5.6.7"},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("error for version %q: %s", tc.v1, err)
 }
 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("error for version %q: %s", tc.v2, err)
 }

 actual := v1.Core()
 expected := v2

 if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
}

func TestVersionCompare(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected int
 }{
 {"1.2.3", "1.4.5", -1},
 {"1.2-beta", "1.2-beta", 0},
 {"1.2", "1.1.4", 1},
 {"1.2", "1.2-beta", 1},
 {"1.2+foo", "1.2+beta", 0},
 {"v1.2", "v1.2-beta",
1},
 {"v1.2+foo", "v1.2+beta", 0},
 {"v1.2.3.4", "v1.2.3.4", 0},
 {"v1.2.0.0", "v1.2", 0},
 {"v1.2.0.0.1", "v1.2", 1},
 {"v1.2", "v1.2.0.0", 0},
 {"v1.2", "v1.2.0.0.1", -1},
 {"v1.2.0.0", "v1.2.0.0.1", -1},
 {"v1.2.3.0", "v1.2.3.4", -1},
 {"1.7rc2", "1.7rc1", 1},
 }

```

```

{"1.7rc2", "1.7", -1},
{"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %d\nactual: %d",
 tc.v1, tc.v2,
 expected, actual)
 }
}

func TestVersionCompare_versionAndSemver(t *testing.T) {
 cases := []struct {
 versionRaw string
 semverRaw string
 expected int
 }{
 {"0.0.2", "0.0.2", 0},
 {"1.0.2alpha", "1.0.2-alpha", 0},
 {"v1.2+foo", "v1.2+beta", 0},
 {"v1.2", "v1.2+meta", 0},
 {"1.2",
"1.2-beta", 1},
 {"v1.2", "v1.2-beta", 1},
 {"1.2.3", "1.4.5", -1},
 {"v1.2", "v1.2.0.0.1", -1},
 {"v1.0.3-", "v1.0.3", -1},
 }

 for _, tc := range cases {
 ver, err := NewVersion(tc.versionRaw)
 if err != nil {
 t.Fatalf("err: %s", err)

```

```

}

semver, err := NewSemver(tc.semverRaw)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := ver.Compare(semver)
if actual != tc.expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %d\n actual: %d",
 tc.versionRaw, tc.semverRaw, tc.expected, actual,
)
}
}
}

func TestVersionEqual_nil(t *testing.T) {
 mustVersion := func(v string) *Version {
 ver, err := NewVersion(v)
 if err != nil {
 t.Fatal(err)
 }
 return ver
 }
 cases := []struct {
 leftVersion *Version
 rightVersion *Version
 expected bool
 }{
 {mustVersion("1.0.0"), nil, false},
 {nil, mustVersion("1.0.0"), false},
 {nil, nil, true},
 }

 for _, tc := range cases {
 given := tc.leftVersion.Equal(tc.rightVersion)
 if given != tc.expected {
 t.Fatalf("expected
 Equal to nil to be %t", tc.expected)
 }
 }
}

func TestComparePreReleases(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 }

```

```

expected int
}{
{"1.2-beta.2", "1.2-beta.2", 0},
{"1.2-beta.1", "1.2-beta.2", -1},
{"1.2-beta.2", "1.2-beta.11", -1},
{"3.2-alpha.1", "3.2-alpha", 1},
{"1.2-beta.2", "1.2-beta.1", 1},
{"1.2-beta.11", "1.2-beta.2", 1},
{"1.2-beta", "1.2-beta.3", -1},
{"1.2-alpha", "1.2-beta.3", -1},
{"1.2-beta", "1.2-alpha.3", 1},
{"3.0-alpha.3", "3.0-rc.1", -1},
{"3.0-alpha3", "3.0-rc1", -1},
{"3.0-alpha.1", "3.0-alpha.beta", -1},
{"5.4-alpha", "5.4-alpha.beta", 1},
{"v1.2-beta.2", "v1.2-beta.2", 0},
{"v1.2-beta.1", "v1.2-beta.2", -1},
{"v3.2-alpha.1", "v3.2-alpha", 1},
{"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual
:= v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %d\nactual: %d",
 tc.v1, tc.v2,
 expected, actual)
 }
}

func TestVersionMetadata(t *testing.T) {
 cases := []struct {
 version string
 expected string
 }

```

```
{
 {"1.2.3", ""},
 {"1.2-beta", ""},
 {"1.2.0-x.Y.0", ""},
 {"1.2.0-x.Y.0+metadata", "metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
}
```

```
for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
}
```

```
actual := v.Metadata()
expected := tc.expected
if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
}
}
```

```
func TestVersionPrerelease(t *testing.T) {
 cases := []struct {
 version string
 expected string
 }{
 {"1.2.3", ""},
 {"1.2-beta", "beta"},
 {"1.2.0-x.Y.0", "x.Y.0"},
 {"1.2.0-7.Y.0", "7.Y.0"},
 {"1.2.0-x.Y.0+metadata", "x.Y.0"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
 {"17.03.0-ce",
"ce"}, // zero-padded fields
 }
}
```

```
for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
}
```

```
actual := v.Prerelease()
expected := tc.expected
if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
}
```



```

}
}

func TestVersionSegments(t *testing.T) {
 cases := []struct {
 version string
 expected []int
 }{
 {"1.2.3", []int{1, 2, 3}},
 {"1.2-beta", []int{1, 2, 0}},
 {"1-x.Y.0", []int{1, 0, 0}},
 {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
 {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
 {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.Segments()
 expected := tc.expected
 if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
 }
 }
}

func TestVersionSegments64(t *testing.T) {
 cases
:= []struct {
 version string
 expected []int64
 }{
 {"1.2.3", []int64{1, 2, 3}},
 {"1.2-beta", []int64{1, 2, 0}},
 {"1-x.Y.0", []int64{1, 0, 0}},
 {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
 {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
 }
}

```

```

actual := v.Segments64()
expected := tc.expected
if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
}

{
 expected := actual[0]
 actual[0]++
 actual = v.Segments64()
 if actual[0] != expected {
 t.Fatalf("Segments64 is mutable")
 }
}
}
}

func TestJsonMarshal(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"1.2.3", false},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen",
false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 }

 for _, tc := range cases {
 v, err1 := NewVersion(tc.version)
 if err1 != nil {
 t.Fatalf("error for version %q: %s", tc.version, err1)
 }

 parsed, err2 := json.Marshal(v)
 if err2 != nil {
 t.Fatalf("error marshaling version %q: %s", tc.version, err2)
 }
 result := string(parsed)
 expected := fmt.Sprintf("%q", tc.version)
 }
}

```

```

 if result != expected && !tc.err {
 t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
 }
}
}

```

```

func TestJsonUnmarshal(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"1.2.3", false},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist",
false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 }
}

```

```

for _, tc := range cases {
 expected, err1 := NewVersion(tc.version)
 if err1 != nil {
 t.Fatalf("err: %s", err1)
 }
}

```

```

 actual := &Version{}
 err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
 if err2 != nil {
 t.Fatalf("error unmarshaling version: %s", err2)
 }
 if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
 }
}
}

```

```

func TestVersionString(t *testing.T) {
 cases := [][]string{
 {"1.2.3", "1.2.3"},
 {"1.2-beta", "1.2.0-beta"},
 {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
 {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
 }
}

```

```

{"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
}

for _, tc := range cases {
 v, err := NewVersion(tc[0])
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.String()
 expected
:= tc[1]
 if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
 if actual := v.Original(); actual != tc[0] {
 t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
 }
}
}

func TestEqual(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
 v1, err := NewVersion(tc.v1)

```

```

if err != nil {
 t.Fatalf("err:
%s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v1.Equal(v2)
expected := tc.expected
if actual != expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

func TestGreaterThan(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", false},
 {"1.2", "1.1.4", true},
 {"1.2", "1.2-beta", true},
 {"1.2+foo", "1.2+beta", false},
 {"v1.2", "v1.2-beta", true},
 {"v1.2+foo", "v1.2+beta", false},
 {"v1.2.3.4", "v1.2.3.4", false},
 {"v1.2.0.0", "v1.2", false},
 {"v1.2.0.0.1", "v1.2", true},
 {"v1.2", "v1.2.0.0", false},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", true},
 {"1.7rc2", "1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
 v1,

```

```

err := NewVersion(tc.v1)
if err != nil {
 t.Fatalf("err: %s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v1.GreaterThan(v2)
expected := tc.expected
if actual != expected {
 t.Fatalf(
 "%s > %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

```

```

func TestLessThan(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", true},
 {"1.2-beta", "1.2-beta", false},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", false},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", false},
 {"v1.2.3.4", "v1.2.3.4", false},
 {"v1.2.0.0", "v1.2", false},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", false},
 {"v1.2", "v1.2.0.0.1", true},
 {"v1.2.0.0", "v1.2.0.0.1", true},
 {"v1.2.3.0", "v1.2.3.4", true},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", true},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
false},
 }
}

```

```

for _, tc := range cases {

```

```

v1, err := NewVersion(tc.v1)
if err != nil {
 t.Fatalf("err: %s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v1.LessThan(v2)
expected := tc.expected
if actual != expected {
 t.Fatalf(
 "%s < %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

func TestGreaterThanOrEqual(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", true},
 {"1.2", "1.2-beta", true},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", true},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", true},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", true},
 {"1.7rc2",
"1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {

```

```

v1, err := NewVersion(tc.v1)
if err != nil {
 t.Fatalf("err: %s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v1.GreaterThanOrEqualTo(v2)
expected := tc.expected
if actual != expected {
 t.Fatalf(
 "%s >= %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

func TestLessThanOrEqualTo(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", true},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", true},
 {"v1.2.0.0", "v1.2.0.0.1", true},
 {"v1.2.3.0",
"v1.2.3.4", true},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", true},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {

```



```

v1, err := NewVersion(tc.v1)
if err != nil {
 t.Fatalf("err: %s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v1.LessThanOrEqual(v2)
expected := tc.expected
if actual != expected {
 t.Fatalf(
 "%s <= %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

```

Data model artifacts for Prometheus.

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# 1.7.0 (May 24, 2024)

#### ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version` ([#133](https://github.com/hashicorp/go-version/pull/133))

#### INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))

- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:  
Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

# 1.6.0 (June 28, 2022)

#### FEATURES:

- Add ``Prerelease`` function to ``Constraint`` to return true if the version includes a prerelease field ([#100](https://github.com/hashicorp/go-version/pull/100))

# 1.5.0 (May 18, 2022)

#### FEATURES:

- Use ``encoding`` ``TextMarshaler`` & ``TextUnmarshaler`` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

# 1.4.0 (January 5, 2022)

#### FEATURES:

- Introduce ``MustConstraints()`` ([#87](https://github.com/hashicorp/go-version/pull/87))
- ``Constraints``: Introduce ``Equals()`` and ``sort.Interface`` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

# 1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source code prior to this release.

#### FEATURES:

- Add ``Core`` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

# 1.2.1 (June 17, 2020)

#### BUG FIXES:

- Prevent ``Version.Equal`` method from panicking on ``nil`` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

# 1.2.0 (April 23, 2019)

#### FEATURES:

- Add ``GreaterThanEqual`` and ``LessThanEqual`` helper methods ([#53](https://github.com/hashicorp/go-

version/pull/53))

# 1.1.0 (Jan 07, 2019)

#### FEATURES:

- Add `NewSemver` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

# 1.0.0 (August 24, 2018)

Initial release.

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package version

```
import (
 "fmt"
 "regexp"
 "sort"
 "strings"
)
```

```
// Constraint represents a single constraint for a version, such as
// ">= 1.0".
```

```
type Constraint struct {
 f constraintFunc
 op operator
 check *Version
 original string
}
```

```
func (c *Constraint) Equals(con *Constraint) bool {
 return c.op == con.op && c.check.Equal(con.check)
}
```

```
// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
```

```
type Constraints []*Constraint
```

```
type constraintFunc func(v, c *Version) bool
```

```
var constraintOperators map[string]constraintOperation
```

```
type constraintOperation struct {
 op operator
 f constraintFunc
}
```

```
var constraintRegexp *regexp.Regexp
```

```
func init() {
 constraintOperators = map[string]constraintOperation{
```

```

"": {op: equal, f: constraintEqual},
"=": {op: equal, f: constraintEqual},
"!=": {op: notEqual, f: constraintNotEqual},
">": {op: greaterThan, f: constraintGreaterThan},
"<":
{op: lessThan, f: constraintLessThan},
">=": {op: greaterThanEqual, f: constraintGreaterThanOrEqual},
"<=": {op: lessThanEqual, f: constraintLessThanOrEqual},
"~>": {op: pessimistic, f: constraintPessimistic},
}

ops := make([]string, 0, len(constraintOperators))
for k := range constraintOperators {
 ops = append(ops, regexp.QuoteMeta(k))
}

constraintRegexp = regexp.MustCompile(fmt.Sprintf(
 `^\s*(%s)\s*(%s)\s*$`,
 strings.Join(ops, "|"),
 VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
 vs := strings.Split(v, ",")
 result := make([]*Constraint, len(vs))
 for i, single := range vs {
 c, err := parseSingle(single)
 if err != nil {
 return nil, err
 }

 result[i] = c
 }

 return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
// returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
 if err != nil {
 panic(err)
 }
}

```

```

return c
}

// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
 for _, c := range cs {
 if !c.Check(v) {
 return false
 }
 }

 return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
// of compared constraints.
// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comparison.
func (cs Constraints) Equals(c Constraints) bool {
 if len(cs) != len(c) {
 return false
 }

 // make copies to retain order of the original slices
 left := make(Constraints, len(cs))
 copy(left, cs)
 sort.Stable(left)
 right := make(Constraints, len(c))
 copy(right, c)
 sort.Stable(right)

 //
 compare sorted slices
 for i, con := range left {
 if !con.Equals(right[i]) {
 return false
 }
 }

 return true
}

func (cs Constraints) Len() int {
 return len(cs)
}

```

```

}

func (cs Constraints) Less(i, j int) bool {
 if cs[i].op < cs[j].op {
 return true
 }
 if cs[i].op > cs[j].op {
 return false
 }

 return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
 cs[i], cs[j] = cs[j], cs[i]
}

// Returns the string format of the constraints
func (cs Constraints) String() string {
 csStr := make([]string, len(cs))
 for i, c := range cs {
 csStr[i] = c.String()
 }

 return strings.Join(csStr, ",")
}

// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
 return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
 return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
string {
 return c.original
}

func parseSingle(v string) (*Constraint, error) {
 matches := constraintRegexp.FindStringSubmatch(v)
 if matches == nil {
 return nil, fmt.Errorf("Malformed constraint: %s", v)
 }
}

```

```

check, err := NewVersion(matches[2])
if err != nil {
 return nil, err
}

cop := constraintOperators[matches[1]]

return &Constraint{
 f: cop.f,
 op: cop.op,
 check: check,
 original: v,
}, nil
}

func prereleaseCheck(v, c *Version) bool {
 switch v.Pre, c.Pre := v.Prerelease() != "", c.Prerelease() != ""; {
 case c.Pre && v.Pre:
 // A constraint with a pre-release can only match a pre-release version
 // with the same base segments.
 return v.equalSegments(c)

 case !c.Pre && v.Pre:
 // A constraint without a pre-release can only match a version without a
 // pre-release.
 return false

 case c.Pre && !v.Pre:
 // OK, except with the pessimistic operator
 case !c.Pre && !v.Pre:
 // OK
 }
 return true
}

//-----
//
// Constraint functions
//-----

type operator rune

const (
 equal operator = '='
 notEqual operator = "
 greaterThan operator = '>'
 lessThan operator = '<'

```

```

greaterThanEqual operator = "
lessThanEqual operator = "
pessimistic operator = '~'
)

func constraintEqual(v, c *Version) bool {
 return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
 return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == 1
}

func constraintLessThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
 // Using a pessimistic
 constraint with a pre-release, restricts versions to pre-releases
 if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
 return false
 }

 // If the version being checked is naturally less than the constraint, then there
 // is no way for the version to be valid against the constraint
 if v.LessThan(c) {
 return false
 }

 // We'll use this more than once, so grab the length now so it's a little cleaner
 // to write the later checks
 cs := len(c.segments)

 // If the version being checked has less specificity than the constraint, then there
 // is no way for the version to be valid against the constraint
 if cs > len(v.segments) {

```

```

return false
}

// Check the segments in the constraint against those in the version. If the version
// being checked, at any point, does not have the same values in each index of the
// constraints segments, then it cannot be valid against the constraint.
for i := 0; i < c.si-1; i++ {
 if v.segments[i] != c.segments[i]
 {
 return false
 }
}

// Check the last part of the segment in the constraint. If the version segment at
// this index is less than the constraints segment at this index, then it cannot
// be valid against the constraint
if c.segments[cs-1] > v.segments[cs-1] {
 return false
}

// If nothing has rejected the version by now, it's valid
return true
}

version: 2
updates:
- package-ecosystem: "gomod"
 directory: "/"
 schedule:
 interval: "daily"
 labels: ["dependencies"]

- package-ecosystem: github-actions
 directory: /
 schedule:
 interval: monthly
 labels:
 - dependencies
 # only update HashiCorp actions, external actions managed by TSCCR
 allow:
 - dependency-name: hashicorp/*
 groups:
 github-actions-breaking:
 update-types:
 - major
 github-actions-backward-compatible:
 update-types:
 - minor
 - patch

```



Common libraries shared by Prometheus Go components.

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module github.com/hashicorp/go-version

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package version

```
import (
 "fmt"
 "reflect"
 "sort"
 "testing"
)
```

```
func TestNewConstraint(t *testing.T) {
 cases := []struct {
 input string
 count int
 err bool
 }{
 {">= 1.2", 1, false},
 {"1.0", 1, false},
 {">= 1.x", 0, true},
 {">= 1.2, < 1.0", 2, false},

 // Out of bounds
 {"11387778780781445675529500000000000000000000", 0, true},
 }
}
```

```
for _, tc := range cases {
 v, err := NewConstraint(tc.input)
 if tc.err && err == nil {
 t.Fatalf("expected error for input: %s", tc.input)
 } else if !tc.err && err != nil {
 t.Fatalf("error for input %s: %s", tc.input, err)
 }

 if len(v) != tc.count {
 t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
 tc.input, tc.count, len(v))
 }
}
}
```

```
func TestConstraintCheck(t *testing.T) {
 cases := []struct {
 constraint string
```

```

version string
check bool
}{
 {">= 1.0, < 1.2", "1.1.5", true},
 {"< 1.0, < 1.2", "1.1.5", false},
 {"= 1.0", "1.1.5",
false},
 {"= 1.0", "1.0.0", true},
 {"1.0", "1.0.0", true},
 {"~> 1.0", "2.0", false},
 {"~> 1.0", "1.1", true},
 {"~> 1.0", "1.2.3", true},
 {"~> 1.0.0", "1.2.3", false},
 {"~> 1.0.0", "1.0.7", true},
 {"~> 1.0.0", "1.1.0", false},
 {"~> 1.0.7", "1.0.4", false},
 {"~> 1.0.7", "1.0.7", true},
 {"~> 1.0.7", "1.0.8", true},
 {"~> 1.0.7", "1.0.7.5", true},
 {"~> 1.0.7", "1.0.6.99", false},
 {"~> 1.0.7", "1.0.8.0", true},
 {"~> 1.0.9.5", "1.0.9.5", true},
 {"~> 1.0.9.5", "1.0.9.4", false},
 {"~> 1.0.9.5", "1.0.9.6", true},
 {"~> 1.0.9.5", "1.0.9.5.0", true},
 {"~> 1.0.9.5", "1.0.9.5.1", true},
 {"~> 2.0", "2.1.0-beta", false},
 {"~> 2.1.0-a", "2.2.0", false},
 {"~> 2.1.0-a", "2.1.0", false},
 {"~> 2.1.0-a", "2.1.0-beta", true},
 {"~> 2.1.0-a", "2.2.0-alpha", false},
 {"> 2.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.0-beta", true},
 {">= 2.1.0-a", "2.1.1-beta", false},
 {">= 2.0.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.1", true},
 {">= 2.1.0-a", "2.1.1-beta",
false},
 {">= 2.1.0-a", "2.1.0", true},
 {"<= 2.1.0-a", "2.0.0", true},
}

```

```

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
}

```

```

v, err := NewVersion(tc.version)
if err != nil {
 t.Fatalf("err: %s", err)
}

actual := c.Check(v)
expected := tc.check
if actual != expected {
 t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
 tc.version, tc.constraint, expected)
}
}
}

```

```

func TestConstraintPrerelease(t *testing.T) {
 cases := []struct {
 constraint string
 prerelease bool
 }{
 {"= 1.0", false},
 {"= 1.0-beta", true},
 {"~> 2.1.0", false},
 {"~> 2.1.0-dev", true},
 {"> 2.0", false},
 {">= 2.1.0-a", true},
 }
}

```

```

for _, tc := range cases {
 c, err := parseSingle(tc.constraint)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
}

```

```

actual := c.Prerelease()
expected := tc.prerelease
if actual != expected {
 t.Fatalf("Constraint: %s\nExpected: %#v",
 tc.constraint, expected)
}
}
}

```

```

func
TestConstraintEqual(t *testing.T) {
 cases := []struct {
 leftConstraint string
 rightConstraint string
 expectedEqual bool
 }
}

```

```

}{
{
"0.0.1",
"0.0.1",
true,
},
{ // whitespaces
" 0.0.1 ",
"0.0.1",
true,
},
{ // equal op implied
"=0.0.1 ",
"0.0.1",
true,
},
{ // version difference
"=0.0.1",
"=0.0.2",
false,
},
{ // operator difference
">0.0.1",
"=0.0.1",
false,
},
{ // different order
">0.1.0, <=1.0.0",
"<=1.0.0, >0.1.0",
true,
},
}

for _, tc := range cases {
leftCon, err := NewConstraint(tc.leftConstraint)
if err != nil {
t.Fatalf("err: %s", err)
}
rightCon, err := NewConstraint(tc.rightConstraint)
if err != nil {
t.Fatalf("err: %s", err)
}

actual := leftCon.Equals(rightCon)
if actual != tc.expectedEqual {
t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
}
}

```

```

}
}

func TestConstraint_sort(t
*testing.T) {
cases := []struct {
constraint string
expectedConstraints string
}{
{
">= 0.1.0,< 1.12",
"< 1.12,>= 0.1.0",
},
{
"< 1.12,>= 0.1.0",
"< 1.12,>= 0.1.0",
},
{
"< 1.12,>= 0.1.0,0.2.0",
"< 1.12,0.2.0,>= 0.1.0",
},
{
">1.0,>0.1.0,>0.3.0,>0.2.0",
">0.1.0,>0.2.0,>0.3.0,>1.0",
},
}

for i, tc := range cases {
t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
c, err := NewConstraint(tc.constraint)
if err != nil {
t.Fatalf("err: %s", err)
}

sort.Sort(c)

actual := c.String()

if !reflect.DeepEqual(actual, tc.expectedConstraints) {
t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
tc.expectedConstraints, actual)
}
})
}
}

func TestConstraintsString(t *testing.T) {
cases := []struct {

```

```

constraint string
result string
}{
{">= 1.0, < 1.2", ""},
{"~> 1.0.7", ""},
}

for _, tc := range cases {
c, err := NewConstraint(tc.constraint)
if err != nil {
t.Fatalf("err:
%s", err)
}

actual := c.String()
expected := tc.result
if expected == "" {
expected = tc.constraint
}

if actual != expected {
t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
tc.constraint, expected, actual)
}
}
}

```

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package version

import (

"bytes"

"database/sql/driver"

"fmt"

"regexp"

"strconv"

"strings"

)

// The compiled regular expression used to test the validity of a version.

var (

versionRegexp \*regexp.Regexp

semverRegexp \*regexp.Regexp

)

// The raw regular expression string used for testing the validity

// of a version.

const (

VersionRegexpRaw string = `v?([0-9]+(\.[0-9]+)\*)` +

`-([0-9]+[0-9A-Za-z\-\~]\*(\.[0-9A-Za-z\-\~]+)\*)(-?([A-Za-z\-\~]+[0-9A-Za-z\-\~]\*(\.[0-9A-Za-z\-\~]+)\*)))?` +

`\+([0-9A-Za-z\-\~]+(\.[0-9A-Za-z\-\~]+)\*))` +

`?`

// SemverRegexpRaw requires a separator between version and prerelease

SemverRegexpRaw string = `v?([0-9]+(\.[0-9]+)\*)` +

`-([0-9]+[0-9A-Za-z\-\~]\*(\.[0-9A-Za-z\-\~]+)\*)(-([A-Za-z\-\~]+[0-9A-Za-z\-\~]\*(\.[0-9A-Za-z\-\~]+)\*)))?` +

`\+([0-9A-Za-z\-\~]+(\.[0-9A-Za-z\-\~]+)\*))` +

`?`

)

// Version represents a single version.

type Version struct {

metadata string

pre

string

segments []int64

```

 si int
 original string
}

func init() {
 versionRegexp = regexp.MustCompile("^" + VersionRegexpRaw + "$")
 semverRegexp = regexp.MustCompile("^" + SemverRegexpRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
 return newVersion(v, versionRegexp)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs
// https://semver.org/
func NewSemver(v string) (*Version, error) {
 return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
 matches := pattern.FindStringSubmatch(v)
 if matches == nil {
 return nil, fmt.Errorf("Malformed version: %s", v)
 }
 segmentsStr := strings.Split(matches[1], ".")
 segments := make([]int64, len(segmentsStr))
 for i, str := range segmentsStr {
 val, err := strconv.ParseInt(str, 10, 64)
 if err != nil {
 return nil, fmt.Errorf(
 "Error parsing version:
%s", err)
 }

 segments[i] = val
 }

 // Even though we could support more than three segments, if we
 // got less than three, pad it with 0s. This is to cover the basic
 // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
 for i := len(segments); i < 3; i++ {
 segments = append(segments, 0)
 }

 pre := matches[7]

```

```

if pre == "" {
 pre = matches[4]
}

return &Version{
 metadata: matches[10],
 pre: pre,
 segments: segments,
 si: len(segmentsStr),
 original: v,
}, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
 if err != nil {
 panic(err)
 }

 return v
}

// Compare compares this version to another version. This
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqual or LessThanOrEqual
// methods.
func (v *Version) Compare(other *Version) int {
 // A quick, efficient equality check
 if v.String() == other.String() {
 return 0
 }

 // If the segments are the same, we must compare on prerelease info
 if v.equalSegments(other) {
 preSelf := v.Prerelease()
 preOther := other.Prerelease()
 if preSelf == "" && preOther == "" {
 return 0
 }
 if preSelf == "" {
 return 1
 }
 if preOther == "" {
 return -1
 }
 }

```

```

}

return comparePrereleases(preSelf, preOther)
}

segmentsSelf := v.Segments64()
segmentsOther := other.Segments64()
// Get the highest specificity (hS), or if they're equal, just use segmentSelf length
lenSelf := len(segmentsSelf)
lenOther := len(segmentsOther)
hS := lenSelf
if lenSelf < lenOther {
 hS = lenOther
}
// Compare the segments
// Because a constraint could have more/less specificity than the version it's
// checking, we need to account for a lopsided or jagged comparison
for i := 0; i < hS; i++ {
 if i > lenSelf-1 {
 //
 This means Self had the lower specificity
 // Check to see if the remaining segments in Other are all zeros
 if !allZero(segmentsOther[i:]) {
 // if not, it means that Other has to be greater than Self
 return -1
 }
 break
 } else if i > lenOther-1 {
 // this means Other had the lower specificity
 // Check to see if the remaining segments in Self are all zeros -
 if !allZero(segmentsSelf[i:]) {
 // if not, it means that Self has to be greater than Other
 return 1
 }
 break
 }
 lhs := segmentsSelf[i]
 rhs := segmentsOther[i]
 if lhs == rhs {
 continue
 } else if lhs < rhs {
 return -1
 }
 // Otherwise, rhs was > lhs, they're not equal
 return 1
}

// if we got this far, they're equal

```



```

return 0
}

func (v *Version) equalSegments(other *Version) bool {
 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()

 if len(segmentsSelf) != len(segmentsOther) {
 return false
 }
 for i, v := range segmentsSelf {
 if v != segmentsOther[i]
 {
 return false
 }
 }
 return true
}

func allZero(segs []int64) bool {
 for _, s := range segs {
 if s != 0 {
 return false
 }
 }
 return true
}

func comparePart(preSelf string, preOther string) int {
 if preSelf == preOther {
 return 0
 }

 var selfInt int64
 selfNumeric := true
 selfInt, err := strconv.ParseInt(preSelf, 10, 64)
 if err != nil {
 selfNumeric = false
 }

 var otherInt int64
 otherNumeric := true
 otherInt, err = strconv.ParseInt(preOther, 10, 64)
 if err != nil {
 otherNumeric = false
 }

 // if a part is empty, we use the other to decide

```

```

if preSelf == "" {
 if otherNumeric {
 return -1
 }
 return 1
}

if preOther == "" {
 if selfNumeric {
 return 1
 }
 return -1
}

if selfNumeric && !otherNumeric {
 return -1
} else if !selfNumeric && otherNumeric {
 return 1
} else if !selfNumeric && !otherNumeric && preSelf > preOther {
 return 1
} else if selfInt > otherInt {
 return 1
}

return -1
}

func comparePrereleases(v string, other string)
int {
 // the same pre release!
 if v == other {
 return 0
 }

 // split both pre releases for analyse their parts
 selfPreReleaseMeta := strings.Split(v, ".")
 otherPreReleaseMeta := strings.Split(other, ".")

 selfPreReleaseLen := len(selfPreReleaseMeta)
 otherPreReleaseLen := len(otherPreReleaseMeta)

 biggestLen := otherPreReleaseLen
 if selfPreReleaseLen > otherPreReleaseLen {
 biggestLen = selfPreReleaseLen
 }

 // loop for parts to find the first difference
 for i := 0; i < biggestLen; i = i + 1 {

```

```

partSelfPre := ""
if i < selfPreReleaseLen {
 partSelfPre = selfPreReleaseMeta[i]
}

partOtherPre := ""
if i < otherPreReleaseLen {
 partOtherPre = otherPreReleaseMeta[i]
}

compare := comparePart(partSelfPre, partOtherPre)
// if parts are equals, continue the loop
if compare != 0 {
 return compare
}
}

return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
(v *Version) Core() *Version {
 segments := v.Segments64()
 segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
 return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
 if v == nil || o == nil {
 return v == o
 }
}

return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
 return v.Compare(o) > 0
}

// GreaterThanOrEqual tests if this version is greater than or equal to another version.
func (v *Version) GreaterThanOrEqual(o *Version) bool {
 return v.Compare(o) >= 0
}

```

```

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
 return v.Compare(o) < 0
}

// LessThanOrEqual tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqual(o *Version) bool {
 return v.Compare(o) <= 0
}

// Metadata returns any metadata
// that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {
 return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
 return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
 segmentSlice := make([]int, len(v.segments))
 for i, v := range v.segments {
 segmentSlice[i] = int(v)
 }
 return segmentSlice
}

// Segments64 returns the
// numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of

```

```

// 1, 2, 3.
func (v *Version) Segments64() []int64 {
 result := make([]int64, len(v.segments))
 copy(result, v.segments)
 return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
 var buf bytes.Buffer
 fmtParts := make([]string, len(v.segments))
 for i, s := range v.segments {
 // We can ignore err here since we've pre-parsed the values in segments
 str := strconv.FormatInt(s, 10)
 fmtParts[i] = str
 }
 fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
 if v.pre != "" {
 fmt.Fprintf(&buf, "-%s", v.pre)
 }
 if v.metadata != "" {
 fmt.Fprintf(&buf, "+%s", v.metadata)
 }

 return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
 return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
 temp, err := NewVersion(string(b))
 if err != nil {
 return err
 }

```

```

*v = *temp

return nil
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
 return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
 switch src := src.(type) {
 case string:
 return v.UnmarshalText([]byte(src))
 case nil:
 return nil
 default:
 return fmt.Errorf("cannot scan %T as Version", src)
 }
}

//
Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
 return v.String(), nil
}

```

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## 1.19 docker-image-spec 1.3.1

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## 1.22 marshmallow 1.1.5

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- \* Sean Karlage (BSDP package, and of tons of improvements to the DHCPv4 package)
- \* Owen Mooney (several option fixes and modifiers)
- \* Mikolaj Walczak (asynchronous DHCPv6 client)
- \* Chris Koch (tons of improvements in DHCPv4 and DHCPv6 internals and interface)
- \* Akshay Navale, Brandon Bennett and Chris Gorham (ZTPv6 and ZTPv4 packages)
- \* Anatole Denis (tons of fixes and new options)

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## 1.30 chi 5.2.1

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Protocol Buffers for Go with Gadgets

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

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## 1.35 go-connections 0.5.0

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## 1.41 otel 1.35.0

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## 0.60.0

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## 1.48 zerolog 1.34.0

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## 1.50 pierrec-lz4 4.1.22

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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`

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 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
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 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 // 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
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package v2\_1

// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.1 of the spec.

type OtherLicense struct {

    // 6.1: License Identifier: "LicenseRef-[idstring]"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseIdentifier string `json:"licenseId"`

    // 6.2: Extracted Text

    // Cardinality: conditional (mandatory, one) if there is a

```
// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 6.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 6.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
Copyright (c) the purl authors
```

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type OtherLicense struct {

// 10.1: License Identifier: "LicenseRef-[idstring]"

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

LicenseIdentifier string `json:"licenseId"`

```
// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
// optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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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# 1.55 oasdiff-yaml 0.0.0-20250309154309-f31be36b4037

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# 1.59 go-chi-httplog 2.1.1

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# 1.60 kin-openapi 0.130.0

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package openapi3

```
import (
 "context"
 "encoding/json"
 "errors"
)
```

// License is specified by OpenAPI/Swagger standard version 3.

// See <https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object>

type License struct {

Extensions map[string]any `json:"- " yaml:"- "`

Origin \*Origin `json:"\_\_origin\_\_,omitempty" yaml:"\_\_origin\_\_,omitempty"`

Name string `json:"name" yaml:"name" // Required

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

}

// MarshalJSON returns the JSON encoding of License.

func (license License) MarshalJSON() ([]byte, error) {

x, err := license.MarshalYAML()

if err != nil {

return nil, err

}

return json.Marshal(x)

}

// MarshalYAML returns the YAML encoding of License.

func (license License) MarshalYAML() (any, error) {

m := make(map[string]any, 2+len(license.Extensions))

for k, v := range license.Extensions {

m[k] = v

}

m["name"] = license.Name

if x := license.URL; x != "" {

m["url"] = x

}

return m, nil

}

//

UnmarshalJSON sets License to a copy of data.

func (license \*License) UnmarshalJSON(data []byte) error {

```

type LicenseBis License
var x LicenseBis
if err := json.Unmarshal(data, &x); err != nil {
 return unmarshalError(err)
}
_ = json.Unmarshal(data, &x.Extensions)
delete(x.Extensions, originKey)
delete(x.Extensions, "name")
delete(x.Extensions, "url")
if len(x.Extensions) == 0 {
 x.Extensions = nil
}
*license = License(x)
return nil
}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
 ctx = WithValidationOptions(ctx, opts...)

 if license.Name == "" {
 return errors.New("value of license name must be a non-empty string")
 }

 return validateExtensions(ctx, license.Extensions)
}

```

# 1.61 oapi-codegen-nhttp-middleware 1.0.2

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