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1.5 elastic/go-elasticsearch 7.17.10

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "io"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostFunc(t Transport) LicensePost {
 return func(o
 ...func(*LicensePostRequest)) (*Response, error) {
  var r = LicensePostRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePost - Updates the license for the cluster.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/update-license.html.
type LicensePost func(o ...func(*LicensePostRequest)) (*Response, error)

// LicensePostRequest configures the License Post API request.
type LicensePostRequest struct {
 Body io.Reader

 Acknowledge *bool

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header
```

```
 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "PUT"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.Acknowledge != nil {
  params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
 }

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
  params["filter_path"] = strings.Join(r.FilterPath, ",")
 }

 req, err := newRequest(method, path.String(), r.Body)
 if err != nil {
  return nil, err
 }

 if len(params) > 0 {
  q := req.URL.Query()
  for k, v := range params {
```

```
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if r.Body != nil && req.Header.Get(headerContentType) == "" {
 req.Header[headerContentType] = headerContentTypeJSON
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err
:= transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePost) WithContext(v context.Context) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.ctx = v
 }
}

// WithBody - licenses to be installed.
```

```
func (f LicensePost) WithBody(v io.Reader) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Body = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePost) WithAcknowledge(v bool) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Acknowledge = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePost) WithPretty() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func
 (f LicensePost) WithHuman() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePost) WithErrorTrace() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePost) WithFilterPath(v ...string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePost) WithHeader(h map[string]string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
```

```
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePost) WithOpaqueID(s string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest)
 {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
name: License headers

on: [ pull_request ]

jobs:
 build:

   runs-on: ubuntu-latest

   steps:
     - uses: actions/checkout@v2

     - name: Check license headers
       run: |
         ./.github/check-license-headers.sh
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//
```

```
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseGetBasicStatusFunc(t Transport) LicenseGetBasicStatus {
 return
 func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error) {
  var r = LicenseGetBasicStatusRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGetBasicStatus - Retrieves information about the status of the basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-basic-status.html.
type LicenseGetBasicStatus func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error)

// LicenseGetBasicStatusRequest configures the License Get Basic Status API request.
type LicenseGetBasicStatusRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetBasicStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )
```

```
method = "GET"

path.Grow(len("/_license/basic_status"))
path.WriteString("/_license/basic_status")

params = make(map[string]string)

if r.Pretty {
 params["pretty"] = "true"
}

if r.Human {
 params["human"] = "true"
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}
```

```
 if ctx != nil {
  req = req.WithContext(ctx)
 }

 res, err := transport.Perform(req)
 if err != nil {
  return nil, err
 }

 response := Response{
  StatusCode: res.StatusCode,
  Body:
      res.Body,
  Header:     res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetBasicStatus) WithContext(v context.Context) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.ctx = v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetBasicStatus) WithPretty() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetBasicStatus) WithHuman() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetBasicStatus) WithErrorTrace() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.ErrorTrace = true
 }
}
```

```
// WithFilterPath filters the properties of the
 response body.
func (f LicenseGetBasicStatus) WithFilterPath(v ...string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetBasicStatus) WithHeader(h map[string]string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetBasicStatus) WithOpaqueID(s string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicenseGetFunc(t Transport) LicenseGet {
 return func(o ...func(*LicenseGetRequest))
 (*Response, error) {
  var r = LicenseGetRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGet - Retrieves licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-license.html.
type LicenseGet func(o ...func(*LicenseGetRequest)) (*Response, error)

// LicenseGetRequest configures the License Get API request.
type LicenseGetRequest struct {
 AcceptEnterprise *bool
 Local            *bool
```

```
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "GET"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.AcceptEnterprise != nil {
  params["accept_enterprise"] = strconv.FormatBool(*r.AcceptEnterprise)
 }

 if r.Local != nil {
  params["local"] = strconv.FormatBool(*r.Local)
 }

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
```

```
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
```

```
func (f LicenseGet) WithContext(v context.Context) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.ctx = v
 }
}

// WithAcceptEnterprise - if the active license is an enterprise license, return type as 'enterprise' (default: false).
func (f LicenseGet) WithAcceptEnterprise(v bool) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.AcceptEnterprise = &v
 }
}

// WithLocal - return local information, do not retrieve the state from master node (default: false).
func (f LicenseGet) WithLocal(v bool) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Local = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGet) WithPretty() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Pretty = true
 }
}

//
 WithHuman makes statistical values human-readable.
func (f LicenseGet) WithHuman() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGet) WithErrorTrace() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseGet) WithFilterPath(v ...string) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.FilterPath = v
 }
}
```

```
// WithHeader adds the headers to the HTTP request.
func (f LicenseGet) WithHeader(h map[string]string) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGet) WithOpaqueID(s string) func(*LicenseGetRequest)
 {
 return func(r *LicenseGetRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseDeleteFunc(t Transport) LicenseDelete {
 return func(o ...func(*LicenseDeleteRequest))
 (*Response, error) {
  var r = LicenseDeleteRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseDelete - Deletes licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/delete-license.html.
type LicenseDelete func(o ...func(*LicenseDeleteRequest)) (*Response, error)

// LicenseDeleteRequest configures the License Delete API request.
type LicenseDeleteRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}
```

```
// Do executes the request and returns response or error.
func (r LicenseDeleteRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "DELETE"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
  params["filter_path"] = strings.Join(r.FilterPath, ",")
 }

 req, err := newRequest(method, path.String(), nil)
 if err != nil {
  return nil, err
 }

 if len(params) > 0 {
  q := req.URL.Query()
  for k, v := range params {
   q.Set(k, v)
  }
  req.URL.RawQuery = q.Encode()
 }

 if len(r.Header) > 0 {
  if len(req.Header) == 0 {
   req.Header = r.Header
```

```
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func
 (f LicenseDelete) WithContext(v context.Context) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.ctx = v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseDelete) WithPretty() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicenseDelete) WithHuman() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.Human = true
 }
}
```

```
// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseDelete) WithErrorTrace() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseDelete) WithFilterPath(v ...string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseDelete)
 WithHeader(h map[string]string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseDelete) WithOpaqueID(s string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostStartTrialFunc(t Transport) LicensePostStartTrial
 {
 return func(o ...func(*LicensePostStartTrialRequest)) (*Response, error) {
  var r = LicensePostStartTrialRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePostStartTrial - starts a limited time trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-trial.html.
type LicensePostStartTrial func(o ...func(*LicensePostStartTrialRequest)) (*Response, error)

// LicensePostStartTrialRequest configures the License Post Start Trial API request.
type LicensePostStartTrialRequest struct {
 Acknowledge  *bool
 DocumentType string

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
```

```
}

// Do executes the request and returns response or error.
func (r LicensePostStartTrialRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method
 string
  path   strings.Builder
  params map[string]string
 )

 method = "POST"

 path.Grow(len("/_license/start_trial"))
 path.WriteString("/_license/start_trial")

 params = make(map[string]string)

 if r.Acknowledge != nil {
  params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
 }

 if r.DocumentType != "" {
  params["type"] = r.DocumentType
 }

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
  params["filter_path"] = strings.Join(r.FilterPath, ",")
 }

 req, err := newRequest(method, path.String(), nil)
 if err != nil {
  return nil, err
 }

 if len(params) > 0 {
```

```
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if
ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartTrial) WithContext(v context.Context) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.ctx = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartTrial) WithAcknowledge(v bool) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
```

```
 r.Acknowledge = &v
 }
}

// WithDocumentType - the type of trial license to generate (default: "trial").
func (f LicensePostStartTrial) WithDocumentType(v string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.DocumentType = v
 }
}

// WithPretty
 makes the response body pretty-printed.
func (f LicensePostStartTrial) WithPretty() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartTrial) WithHuman() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartTrial) WithErrorTrace() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartTrial) WithFilterPath(v ...string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartTrial) WithHeader(h map[string]string) func(*LicensePostStartTrialRequest)
 {
 return func(r *LicensePostStartTrialRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
```

```
  r.Header.Add(k, v)
 }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartTrial) WithOpaqueID(s string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseGetTrialStatusFunc(t Transport) LicenseGetTrialStatus {
 return
 func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error) {
  var r = LicenseGetTrialStatusRequest{}
  for _, f := range o {
   f(&r)
  }
```

```
 return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGetTrialStatus - Retrieves information about the status of the trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-trial-status.html.
type LicenseGetTrialStatus func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error)

// LicenseGetTrialStatusRequest configures the License Get Trial Status API request.
type LicenseGetTrialStatusRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetTrialStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )

 method = "GET"

 path.Grow(len("/_license/trial_status"))
 path.WriteString("/_license/trial_status")

 params = make(map[string]string)

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
```

```
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:
     res.Body,
 Header:     res.Header,
}
```

```
 return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetTrialStatus) WithContext(v context.Context) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.ctx = v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetTrialStatus) WithPretty() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetTrialStatus) WithHuman() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetTrialStatus) WithErrorTrace() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the
 response body.
func (f LicenseGetTrialStatus) WithFilterPath(v ...string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetTrialStatus) WithHeader(h map[string]string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
```

```
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetTrialStatus) WithOpaqueID(s string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
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package esapi

import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostStartBasicFunc(t Transport) LicensePostStartBasic
 {
 return func(o ...func(*LicensePostStartBasicRequest)) (*Response, error) {
  var r = LicensePostStartBasicRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
```

```
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePostStartBasic - Starts an indefinite basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-basic.html.
type LicensePostStartBasic func(o ...func(*LicensePostStartBasicRequest)) (*Response, error)

// LicensePostStartBasicRequest configures the License Post Start Basic API request.
type LicensePostStartBasicRequest struct {
 Acknowledge *bool

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartBasicRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )

 method = "POST"

 path.Grow(len("/_license/start_basic"))
 path.WriteString("/_license/start_basic")

 params = make(map[string]string)

 if r.Acknowledge != nil {
  params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
 }

 if r.Pretty {
  params["pretty"] = "true"
 }
```

```
if r.Human {
 params["human"] = "true"
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
 return nil, err
}

response := Response{
```

```
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartBasic) WithContext(v context.Context) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.ctx = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartBasic) WithAcknowledge(v bool) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.Acknowledge = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePostStartBasic) WithPretty() func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartBasic) WithHuman() func(*LicensePostStartBasicRequest) {
 return
 func(r *LicensePostStartBasicRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartBasic) WithErrorTrace() func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartBasic) WithFilterPath(v ...string) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.FilterPath = v
```

```
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartBasic) WithHeader(h map[string]string) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartBasic) WithOpaqueID(s string) func(*LicensePostStartBasicRequest)
 {
 return func(r *LicensePostStartBasicRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
```

1.6 libmd 1.1.0-r0

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1.9 xxhash 2.3.0

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1.10 sirupsen-logrus 1.9.3

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* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v03.c
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Huffman coder, part of New Generation Entropy library
header file
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* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/compress/zstdmt_compress.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/zstd_internal.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/pool.c
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v06.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/decompress/zstd_decompress.c
*
 /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/zstd_common.c
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v04.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/zstd_errors.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v07.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_legacy.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/mem.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v02.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/compress/zstdmt_compress.c
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v01.h
*
 /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/compress/zstd_opt.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/compress/zstd_compress.c
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/error_private.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/zstd.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v03.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/pool.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/legacy/zstd_v05.h
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/compiler.h
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- Public forum : https://groups.google.com/forum/#!forum/lz4c
** */

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* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/compress/fse_compress.c
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** */

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* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/fse_decompress.c
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Found in path(s):
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/zstd/lib/common/xxhash.c
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Metadata-Version: 1.1
Name: zstd
Version: 1.3.1
Summary: ZSTD Bindings for Python
Home-page: https://github.com/sergey-dryabzhinsky/python-zstd
Author: Sergey Dryabzhinsky
Author-email: sergey.dryabzhinsky@gmail.com
License: BSD
Description: ==============
      python-zstd
      ==============

      .. image:: https://travis-ci.org/sergey-dryabzhinsky/python-zstd.svg?branch=master
         :target: https://travis-ci.org/sergey-dryabzhinsky/python-zstd

      Simple python bindings to Yann Collet ZSTD compression library

      **Zstd**, short for Zstandard, is a new lossless compression algorithm,
       which provides both good compression ratio _and_ speed for your standard compression needs.
       "Standard" translates into everyday situations which neither look for highest possible ratio
       (which LZMA and ZPAQ cover) nor extreme speeds (which LZ4 covers).

       It is provided as a BSD-license package, hosted on GitHub_.

      .. _GitHub: https://github.com/facebook/zstd
```

WARNING!!!

If you setup 1.0.0.99.1 version - remove it manualy to able to update.
PIP matching version strings not tuple of numbers.

Result generated by versions prior to 1.0.0.99.1 is not compatible with orignial Zstd
by any means. It generates custom header and can be readed only by zstd python module.

As of 1.0.0.99.1 version it uses standard Zstd output, not modified.

To prevent data loss there is two functions now: ```compress_old``` and ```decompress_old```.
They are works just like in old versions prior to 1.0.0.99.1.

As of 1.1.4 version module build without them by default.

LINKS
---

* More full-featured and compatible with Zstandard python bindings
by Gregory Szorc: https://pypi.python.org/pypi/zstandard

TODO
---

* Support dictionary training. Current status is ``not supported``.

Build from source

```
>>> git clone https://github.com/sergey-dryabzhinsky/python-zstd
>>> git submodule update --init
>>> apt-get install python-dev python3-dev python-setuptools python3-setuptools
>>> python setup.py build_ext clean
>>> python3 setup.py build_ext clean
```

Note: legacy format support disabled by default.
To build with legacy support - pass ``--legacy`` option to setup.py script:

```
>>> python setup.py build_ext --legacy clean
```

If you want to build with existing distribution of libzstd just add ``--external`` option.
But beware! Legacy formats support is unknown in this case.

>>> python setup.py
build_ext --external clean

If paths to header file ``zstd.h`` and libraries is uncommon - use common ``build`` params:
--libraries --include-dirs --library-dirs.

>>> python setup.py build_ext --external --include-dirs /opt/zstd/usr/include --libraries zstd --library-dirs /opt/zstd/lib clean

Install from pypi

>>> # for Python 2.6+
>>> pip install zstd
>>> # or for Python 3.2+
>>> pip3 install zstd

Keywords: zstd,zstandard,compression
Platform: UNKNOWN
Classifier: License :: OSI Approved :: BSD License
Classifier: Intended Audience :: Developers
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: POSIX
Classifier: Programming Language :: C
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier:
Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6

Found in path(s):
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/PKG-INFO
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/src/zstd.egg-info/PKG-INFO
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Public Prototypes declaration
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Found in path(s):
* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/setup.py
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/* Macros and other changes from python-lz4.c
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* /opt/cola/permits/2028324066_1716736050.5891783/0/zstd-1-3-1-tar-gz/zstd-1.3.1/src/python-zstd.c

1.12 procfs 0.15.1

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replace the ``with@dots{}Texts." line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover
 Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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1.15 alpine-keys 2.5-r0

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
build() {
 cd "$_builddir"
 ./configure --prefix=/usr || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 rm "$pkgdir"/usr/lib/*.la
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

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1.16 perks 1.0.1

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1.17 logrus 1.9.3

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1.18 openssl 3.0.15

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1.21 bash 5.2.37-r0

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1.23 skalibs 2.14.3.0-r0

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1.24 utmps 0.1.2.3-r2

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1.25 ncurses 6.5_p20241006-r3

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1.27 cjson 1.7.18-r0

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1.28 iputils 20240905-r0

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1.29 shadow 4.16.0-r1

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# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"

```
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}
```

```
check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
```

```
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
```

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```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
```

```
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
```

```
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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1.30 librdkafka 2.6.1-r0

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*/
src/rdxxhash.[ch] src/lz4*.[ch]: git@github.com:lz4/lz4.git 5ff839680134437dbf4678f3d0c7b371d84f4964

LZ4 Library
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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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By:
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  http://www.isthe.com/chongo/

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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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"
FindZstd.cmake: git@github.com:facebook/folly.git 87f1a403b49552dae75ae94c8610dd5979913477

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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Ty Coon, President of
Vice

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1.32 libncursesw 6.5_p20241006-r3

1.32.1 Available under license :

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

```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -------------------------------------------------------------------------------
#
# Ncurses 6.5 is at
#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
#
# Patches for ncurses 6.5 can be found at
#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# -------------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# -------------------------------------------------------------------------------
# NEWS                        |   6 +++
# VERSION                     |   2 -
# c++/cursesf.cc              |   6 +--
# c++/cursesf.h
                |   6 +--
# c++/cursesm.cc              |   6 +--
# c++/cursesm.h               |   6 +--
# c++/cursesp.cc              |   6 +--
# c++/cursespad.cc            |   6 +--
# c++/cursslk.cc              |  12 +++++----
# c++/cursslk.h               |   6 +--
# dist.mk                     |   4 +-
# misc/terminfo.src           |  23 ++++++++++++--
# ncurses/base/lib_screen.c   |   4 +-
# ncurses/base/new_pair.c     |   4 +-
```

```
# ncurses/curses.priv.h          |   4 +-
# ncurses/new_pair.h             |   4 +-
# ncurses/tinfo/trim_sgr0.c      |   7 ++--
# ncurses/tty/lib_twait.c        |   6 +--
# package/debian-mingw/changelog |   4 +-
# package/debian-mingw64/changelog |   4 +-
# package/debian/changelog       |   4 +-
# package/mingw-ncurses.nsi      |   4 +-
# package/mingw-ncurses.spec     |   2 -
# package/ncurses.spec           |   2 -
# package/ncursest.spec          |
   2 -
# test/blue.c                    |  10 +++---
# test/bs.c                      |   8 ++--
# test/cardfile.c                |  12 +++++----
# test/chgat.c                   |   6 +--
# test/clip_printw.c             |   8 ++--
# test/color_name.h              |   6 +--
# test/demo_defkey.c             |   4 +-
# test/demo_forms.c              |  22 ++++++-------
# test/demo_menus.c              |  32 ++++++++++---------
# test/demo_new_pair.c           |   4 +-
# test/demo_panels.c             |  16 ++++-----
# test/demo_termcap.c            |  18 +++++-----
# test/demo_terminfo.c           |  18 +++++-----
# test/dots.c                    |   6 +--
# test/dots_mvcur.c              |   6 +--
# test/dots_termcap.c            |   8 ++--
# test/dup_field.c               |  14 ++++++----
# test/filter.c                  |   6 +--
# test/form_driver_w.c           |   6 +--
# test/gdc.c                     |  10 +++---
# test/inch_wide.c
                |   6 +--
# test/inchs.c                   |   6 +--
# test/ins_wide.c                |   6 +--
# test/insdelln.c                |   8 ++--
# test/inserts.c                 |   6 +--
# test/knight.c                  |   7 ++--
# test/list_keys.c               |   8 ++--
# test/move_field.c              |  18 +++++-----
# test/movewindow.c              |  16 ++++-----
# test/ncurses.c                 |  61 ++++++++++++++++++++++----------------
# test/padview.c                 |  12 +++++----
# test/parse_rgb.h               |   6 +--
# test/picsmap.c                 |  14 ++++++----
# test/popup_msg.c               |   8 ++--
# test/popup_msg.h               |   6 +--
```

```
# test/railroad.c               |   6 +--
# test/rain.c                   |  20 ++++++------
# test/redraw.c                 |   6 +--
# test/savescreen.c             |  14 ++++++----
# test/tclock.c                 |   4 +-
# test/test.priv.h
                |  10 +++---
# test/test_add_wchstr.c        |   6 +--
# test/test_addchstr.c          |   6 +--
# test/test_addstr.c            |   6 +--
# test/test_addwstr.c           |   6 +--
# test/test_endwin.c            |   6 +--
# test/test_get_wstr.c          |   8 ++--
# test/test_getstr.c            |   8 ++--
# test/test_instr.c             |   8 ++--
# test/test_inwstr.c            |   8 ++--
# test/test_mouse.c             |   4 +-
# test/test_opaque.c            |   8 ++--
# test/test_sgr.c               |  26 +++++++--------
# test/test_tparm.c             |  12 +++++----
# test/test_vidputs.c           |   6 +--
# test/testcurs.c               |   8 ++--
# test/testscanw.c              |   6 +--
# test/view.c                   |  21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# --------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
-- authorization.                                                            --
--------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
--------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
```

```
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
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@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
```

```
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@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                  *
 ****************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
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@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
```

```
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/****************************************************************************
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@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019,2020 Thomas E. Dickey                                     *
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```
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 *                                                                        *
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
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@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
  : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
```

```
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
   NCursesWindow* W2 = getWindow();

   if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
```

```
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
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            *
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@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written               #
# authorization.                                                             #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
```

```
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
```

```
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
```

```
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

 #endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

 #if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
  * pair table.
  */
 NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
 {
    colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
  ******************************************************************************/

 /*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
  *
  * curses.priv.h
  *
@@ -2170,7 +2170,7 @@
 extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
 extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
 extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
 extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
 extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
 extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
```

```
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
```

```
    FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
    && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
    TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch
```

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq: 1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

 ; TODO add examples
 ; TODO bump ABI to 6
@@ -10,7 +10,7 @@
 !define VERSION_MAJOR "6"

```
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ****************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
```

```
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
```

```
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/****************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
```

```
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
```

```
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
   int result = 0;
   char *endp = 0;
-    size_t n;

   if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
   } else if (!strcmp(color, "default")) {
 result = -1;
   } else {
```

```
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

   really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
```

```
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
    int field_rows, field_cols, field_max;
    int currow, curcol;

@@ -325,7 +325,7 @@
    waddch(win, '\n');

    if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@

 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
```

```
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-   const char *fname;
-   static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
    {"first", "second", "third", 0};

 #ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
  WINDOW *also;
  int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
 /****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
  * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
  *                                                                          *
  * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
  * authorization.                                                           *
  ****************************************************************************/
 /*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
  *
  * Demonstrate a variety of functions from the menu library.
  * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
 }

 static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
```

```
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-   ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-   ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
   touchwin(menu_win(m));
   wrefresh(menu_win(m));
```

```
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
   ITEM **items;
-   ITEM *i;
+    NCURSES_CONST ITEM *i;
   bool changed = FALSE;

   items = menu_items(m);
@@ -613,7 +613,7 @@
   int result;

   for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
    set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
    unsigned newtrace = 0;
    for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-     MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+     NCURSES_CONST
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
     newtrace |= td->mask;
  }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
   WINDOW *top_win = menu_win(menu);
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
```

```
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
     || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
     MENU_DATA *td = (MENU_DATA *) item_userptr(item);
     td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ******************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-   char *value = tigetstr(name);
+   const char *value = tigetstr(name);
   return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}
```

```
static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
-   char *str;
+    NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
```

```
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-   char *name;
+   NCURSES_CONST char *name;
   bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-   char *input_name = 0;
+   NCURSES_CONST char *input_name = 0;

   int repeat;
   int r_opt = 1;
@@ -867,7
 +867,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -894,7 +894,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
```

```
 demo_termcap(dumb);
    }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
   NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
   if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    const TERMTYPE *term = (TERMTYPE *) cur_term;
```

```
    if (term != 0
 && ((NUM_BOOLEANS(term)
!= BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
   int ch;
   int n;
   int repeat;
-   char *name;
+    NCURSES_CONST char *name;
   int r_opt = 1;
-   char *input_name = 0;
+    const char *input_name = 0;

   while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
    }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
```

```
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
```

```
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
   int result = tgetnum(cap);
-   char *value = env ? getenv(env) : 0;
+   const char *value = env ? getenv(env) : 0;
   if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
   double c;
   char buffer[1024];
   char area[1024];
-   char *name;
+   NCURSES_CONST char *name;
   size_t need;
   char *my_env;

Index: test/dup_field.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
```

```
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
    break;
 }
```

```
Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@@
 -30,7 +30,7 @@@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@@ -65,7 +65,7 @@@
   if (clocked) {
 if (limit >= 3) {
    time_t now = time((time_t *) 0);
-    struct tm *my = localtime(&now);
+    const struct tm *my = localtime(&now);
    char buffer[80];
    int skip, y, x;
    int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey
                      *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@@ -32,7 +32,7 @@@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
```

```
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
-   struct tm *tm;
+   NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
-   struct tm *tm;
+   NCURSES_CONST struct tm *tm;
    long t, a;
    int i, j, s, k, ch;
    int count = 0;
@@ -293,7 +293,7 @@

    InitAndCatch({
 if (redirected) {
```

```
-    char *name = getenv("TERM");
+    NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
     {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
     }
     MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
      int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
```

```
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
```

```
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */
```

```
#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
   if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2016,2017 Free Software Foundation, Inc.                       *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
   if (x_opt) {
  for (k = 0; k < count; ++k) {
-    TERMTYPE *term;
+    const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

   for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
```

```
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;
```

```
   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
    break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-   WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
   int currow, curcol;

   getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
```

```
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
     int uli, int ulj,
     int lri, int lrj,
     bool relative,
@@ -252,7 +252,7 @@
     int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
     int min_line = (parent == stdscr) ? LINE_MIN : 0;
     int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
     bool result = FALSE;

     head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
 }

 static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
 {
     WINDOW *result = 0;
     int n = window2num(win);
@@ -435,7 +435,7 @@
  int max_col = top ? COL_MAX
  : getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
  bool more;

  head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
 }

 static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
 {
     int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
  int max_col = top ? COL_MAX : getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
```

```
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024
 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -41,7 +41,7 @@
   Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
         Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

****************************************************************************/

@@ -273,7 +273,7 @@
     ++x;
     break;
 default:
-    if (!isprint(ch) || ch >= KEY_MIN) {
+    if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
 wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
     (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
```

```
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
      pair = 1;
      if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
     int col = (i % per_row + 1) * width;
-     NCURSES_PAIRS_T pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
     if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-    long i;
+     int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
       opt_wide,
       opt_zoom);
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-     int row = grid_top + ((int) i / per_row) - base_row;
-     int col = ((int) i % per_row + 1) * width;
-     int pair = (int) i;
+     int row = grid_top + (i / per_row) - base_row;
```

```
+     int col = (i % per_row + 1) * width;
+     int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-    char *s;
+    NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
  }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-    pair ul, lr, *tmp;
+    pair ul, lr;
+    NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
     if (current) {
```

```
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
   int count;
   int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
   ITEM **items;
-   ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
+    ITEM **p;

   for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

   if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
```

```
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
 }

 static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
 {
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
 static
 FIELDCHECK_CB(pw_field_check)
 {
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
 form_test(bool recur GCC_UNUSED)
 {
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
     FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
 }

 static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
```

```
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
   switch ((otCOPY) flavor) {
   case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
   bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
   bool xterm_colors = FALSE;
-    char *palette_file = 0;
+    NCURSES_CONST char *palette_file = 0;
#endif

   setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free
 Software Foundation, Inc.                         *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
   for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
```

```
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
```

```
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2017,2018 Free Software Foundation, Inc.                       *
 *                                                                          *
                                                *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)
```

```
static void
-dump_picture(PICS_HEAD
 * pics)
+dump_picture(const PICS_HEAD * pics)
{
   int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
    {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
     switch (*s++) {
     case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
   int x0 = 4;
   int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}
```

```
#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free Software Foundation, Inc.                            *
 *                                                                          *
                *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.                  *
 *                                                 *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
    int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
```

```
{
   MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
```

```
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
```

```
/****************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
   int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
#endif
-    char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
   bool dumped = FALSE;

   if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
```

```
+    static NCURSES_CONST char *msgs[] =
     {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
     bool replaying = FALSE;
     bool done = FALSE;
     char **files;
-
     char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
 #if USE_WIDEC_SUPPORT
     cchar_t mycc;
     static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

 #define NEED_TIME_H
 #include <test.priv.h>
@@ -145,7 +145,7 @@
     int lastbeep = -1;
     bool odd = FALSE;
     time_t tim;
-    struct tm *t;
+    const struct tm *t;
     char szChar[20];
     char *text;
     short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
 *  Author: Thomas E. Dickey                    1996-on                   *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

 #ifndef __TEST_PRIV_H
 #define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@
```

```
#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
 NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
```

```
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
```

```
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -67,7 +67,7 @@
   int rc_e1 = OK;
   int rc_e2 = OK;
   int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
   bool opt_e = FALSE;
   bool opt_i = FALSE;
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}
```

```
static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
   {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
```

```
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
```

```
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
   (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                                      *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
```

```
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
    return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
    return (15 * (cell / getmaxy(stswin)));
```

```
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
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 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
```

```
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
```

```
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
   char *next = 0;
   long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
   char *use_strings[MAX_PARM];
   char *result = NULL;
@@ -527,7 +527,7 @@
    }
 } else {
    char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
-  TERMTYPE *term =
 (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
     GrowArray(all_caps, max_caps, len_caps);
     GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */

#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
     wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
 else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
```

```
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
     for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *
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 *                                                                          *
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@@ -30,7 +30,7 @@
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
   curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
   while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
 if (isdigit(UChar(*token)))
     move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
```

```
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 *                                                                          *
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@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
      */
     {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
     TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
      }
      , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
```

```
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
    beep();
    break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
    got_number = FALSE;
    value = 0;
 }
```

Found in path(s):
* /opt/cola/permits/2303554631_1736345227.5550623/0/ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.33 scanelf 1.3.8-r1

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1.34 utmps-libs 0.1.2.3-r2

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1.35 skalibs-libs 2.14.3.0-r0

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1.36 auto-sdk 1.1.0

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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 }}
```

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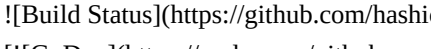
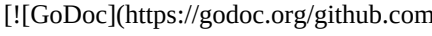

[](https://godoc.org/github.com/hashicorp/go-version)

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))
```

Issues and Contributing

If you find an issue with this library, please report an issue. If you'd like, we welcome any contributions. Fork this library and submit a pull request.
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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.GreaterThanOrEqual(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s >= %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestLessThanOrEqual(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 `GreaterThanOrEqual` and `LessThanOrEqual` 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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```
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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: constraintGreaterThanEqual},
 "<=": {op: lessThanEqual, f: constraintLessThanEqual},
 "~>": {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 comaparison.
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 vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
 case cPre && vPre:
  // A constraint with a pre-release can only match a pre-release version
  // with the same base segments.
  return v.equalSegments(c)

 case !cPre && vPre:
  // A constraint without a pre-release can only match a version without a
  // pre-release.
  return false

 case cPre && !vPre:
  // OK, except with the pessimistic operator
 case !cPre && !vPre:
  // 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
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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
  {"1138777878078144567552950000000000000000", 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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Protocol Buffers for Go with Gadgets

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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
  }
  // Otherwis, 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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1.38 iputils-tracepath 20240905-r0

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1.42 musl 1.2.5-r9

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1.43 stdr 1.2.2

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1.44 go-elasticsearch 7.17.10

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "io"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostFunc(t Transport) LicensePost {
 return func(o
 ...func(*LicensePostRequest)) (*Response, error) {
  var r = LicensePostRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePost - Updates the license for the cluster.
//
```

```
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/update-license.html.
type LicensePost func(o ...func(*LicensePostRequest)) (*Response, error)

// LicensePostRequest configures the License Post API request.
type LicensePostRequest struct {
 Body io.Reader

 Acknowledge *bool

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "PUT"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.Acknowledge != nil {
  params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
 }

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
```

```
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), r.Body)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if r.Body != nil && req.Header.Get(headerContentType) == "" {
 req.Header[headerContentType] = headerContentTypeJSON
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err
:= transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
```

```
 Body:       res.Body,
 Header:     res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicensePost) WithContext(v context.Context) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.ctx = v
 }
}

// WithBody - licenses to be installed.
func (f LicensePost) WithBody(v io.Reader) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Body = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePost) WithAcknowledge(v bool) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Acknowledge = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePost) WithPretty() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func
 (f LicensePost) WithHuman() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePost) WithErrorTrace() func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.ErrorTrace = true
 }
```

```
}

// WithFilterPath filters the properties of the response body.
func (f LicensePost) WithFilterPath(v ...string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePost) WithHeader(h map[string]string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePost) WithOpaqueID(s string) func(*LicensePostRequest) {
 return func(r *LicensePostRequest)
 {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
name: License headers

on: [ pull_request ]

jobs:
 build:

   runs-on: ubuntu-latest

   steps:
     - uses: actions/checkout@v2

     - name: Check license headers
       run: |
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package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseGetBasicStatusFunc(t Transport) LicenseGetBasicStatus {
 return
 func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error) {
  var r = LicenseGetBasicStatusRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGetBasicStatus - Retrieves information about the status of the basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-basic-status.html.
type LicenseGetBasicStatus func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error)

// LicenseGetBasicStatusRequest configures the License Get Basic Status API request.
type LicenseGetBasicStatusRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
```

```
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetBasicStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )

 method = "GET"

 path.Grow(len("/_license/basic_status"))
 path.WriteString("/_license/basic_status")

 params = make(map[string]string)

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
  params["filter_path"] = strings.Join(r.FilterPath, ",")
 }

 req, err := newRequest(method, path.String(), nil)
 if err != nil {
  return nil, err
 }

 if len(params) > 0 {
  q := req.URL.Query()
  for k, v := range params {
   q.Set(k, v)
```

```
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:
     res.Body,
 Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetBasicStatus) WithContext(v context.Context) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.ctx = v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetBasicStatus) WithPretty() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.Pretty = true
 }
}
```

```
// WithHuman makes statistical values human-readable.
func (f LicenseGetBasicStatus) WithHuman() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetBasicStatus) WithErrorTrace() func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the
 response body.
func (f LicenseGetBasicStatus) WithFilterPath(v ...string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetBasicStatus) WithHeader(h map[string]string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetBasicStatus) WithOpaqueID(s string) func(*LicenseGetBasicStatusRequest) {
 return func(r *LicenseGetBasicStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicenseGetFunc(t Transport) LicenseGet {
 return func(o ...func(*LicenseGetRequest))
 (*Response, error) {
  var r = LicenseGetRequest{}
  for _, f := range o {
   f(&r)
```

```
 }
 return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGet - Retrieves licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-license.html.
type LicenseGet func(o ...func(*LicenseGetRequest)) (*Response, error)

// LicenseGetRequest configures the License Get API request.
type LicenseGetRequest struct {
 AcceptEnterprise *bool
 Local            *bool

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "GET"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.AcceptEnterprise != nil {
  params["accept_enterprise"] = strconv.FormatBool(*r.AcceptEnterprise)
 }

 if r.Local != nil {
```

```
 params["local"] = strconv.FormatBool(*r.Local)
}

if r.Pretty {
 params["pretty"] = "true"
}

if r.Human {
 params["human"] = "true"
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}
```

```
 res, err := transport.Perform(req)
 if
 err != nil {
  return nil, err
 }

 response := Response{
  StatusCode: res.StatusCode,
  Body:       res.Body,
  Header:     res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicenseGet) WithContext(v context.Context) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.ctx = v
 }
}

// WithAcceptEnterprise - if the active license is an enterprise license, return type as 'enterprise' (default: false).
func (f LicenseGet) WithAcceptEnterprise(v bool) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.AcceptEnterprise = &v
 }
}

// WithLocal - return local information, do not retrieve the state from master node (default: false).
func (f LicenseGet) WithLocal(v bool) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Local = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGet) WithPretty() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Pretty = true
 }
}

//
 WithHuman makes statistical values human-readable.
func (f LicenseGet) WithHuman() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.Human = true
```

```
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGet) WithErrorTrace() func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseGet) WithFilterPath(v ...string) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGet) WithHeader(h map[string]string) func(*LicenseGetRequest) {
 return func(r *LicenseGetRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGet) WithOpaqueID(s string) func(*LicenseGetRequest)
 {
 return func(r *LicenseGetRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseDeleteFunc(t Transport) LicenseDelete {
 return func(o ...func(*LicenseDeleteRequest))
 (*Response, error) {
  var r = LicenseDeleteRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseDelete - Deletes licensing information for the cluster
```

```
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/delete-license.html.
type LicenseDelete func(o ...func(*LicenseDeleteRequest)) (*Response, error)

// LicenseDeleteRequest configures the License Delete API request.
type LicenseDeleteRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseDeleteRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params map[string]string
 )

 method = "DELETE"

 path.Grow(len("/_license"))
 path.WriteString("/_license")

 params
 = make(map[string]string)

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
 }

 if r.ErrorTrace {
  params["error_trace"] = "true"
 }

 if len(r.FilterPath) > 0 {
  params["filter_path"] = strings.Join(r.FilterPath, ",")
 }
```

```
req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func
 (f LicenseDelete) WithContext(v context.Context) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.ctx = v
```

```
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseDelete) WithPretty() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicenseDelete) WithHuman() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseDelete) WithErrorTrace() func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseDelete) WithFilterPath(v ...string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseDelete)
 WithHeader(h map[string]string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseDelete) WithOpaqueID(s string) func(*LicenseDeleteRequest) {
 return func(r *LicenseDeleteRequest) {
  if r.Header == nil {
```

```
  r.Header = make(http.Header)
 }
 r.Header.Set("X-Opaque-Id", s)
}
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostStartTrialFunc(t Transport) LicensePostStartTrial
 {
 return func(o ...func(*LicensePostStartTrialRequest)) (*Response, error) {
  var r = LicensePostStartTrialRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePostStartTrial - starts a limited time trial license.
//
```

```
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-trial.html.
type LicensePostStartTrial func(o ...func(*LicensePostStartTrialRequest)) (*Response, error)

// LicensePostStartTrialRequest configures the License Post Start Trial API request.
type LicensePostStartTrialRequest struct {
 Acknowledge  *bool
 DocumentType string

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartTrialRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method
 string
  path   strings.Builder
  params map[string]string
 )

 method = "POST"

 path.Grow(len("/_license/start_trial"))
 path.WriteString("/_license/start_trial")

 params = make(map[string]string)

 if r.Acknowledge != nil {
  params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
 }

 if r.DocumentType != "" {
  params["type"] = r.DocumentType
 }

 if r.Pretty {
  params["pretty"] = "true"
 }

 if r.Human {
  params["human"] = "true"
```

```
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}

if
ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
```

```
 Header:    res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartTrial) WithContext(v context.Context) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.ctx = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartTrial) WithAcknowledge(v bool) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.Acknowledge = &v
 }
}

// WithDocumentType - the type of trial license to generate (default: "trial").
func (f LicensePostStartTrial) WithDocumentType(v string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.DocumentType = v
 }
}

// WithPretty
 makes the response body pretty-printed.
func (f LicensePostStartTrial) WithPretty() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartTrial) WithHuman() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartTrial) WithErrorTrace() func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.ErrorTrace = true
 }
}
```

```
// WithFilterPath filters the properties of the response body.
func (f LicensePostStartTrial) WithFilterPath(v ...string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartTrial) WithHeader(h map[string]string) func(*LicensePostStartTrialRequest)
 {
 return func(r *LicensePostStartTrialRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartTrial) WithOpaqueID(s string) func(*LicensePostStartTrialRequest) {
 return func(r *LicensePostStartTrialRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
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```

```
package esapi

import (
 "context"
 "net/http"
 "strings"
)

func newLicenseGetTrialStatusFunc(t Transport) LicenseGetTrialStatus {
 return
 func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error) {
  var r = LicenseGetTrialStatusRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicenseGetTrialStatus - Retrieves information about the status of the trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-trial-status.html.
type LicenseGetTrialStatus func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error)

// LicenseGetTrialStatusRequest configures the License Get Trial Status API request.
type LicenseGetTrialStatusRequest struct {
 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetTrialStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )
```

```
method = "GET"

path.Grow(len("/_license/trial_status"))
path.WriteString("/_license/trial_status")

params = make(map[string]string)

if r.Pretty {
 params["pretty"] = "true"
}

if r.Human {
 params["human"] = "true"
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
   }
  }
 }
}
```

```
 if ctx != nil {
  req = req.WithContext(ctx)
 }

 res, err := transport.Perform(req)
 if err != nil {
  return nil, err
 }

 response := Response{
  StatusCode: res.StatusCode,
  Body:
      res.Body,
  Header:     res.Header,
 }

 return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetTrialStatus) WithContext(v context.Context) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.ctx = v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetTrialStatus) WithPretty() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetTrialStatus) WithHuman() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetTrialStatus) WithErrorTrace() func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the
```

```
 response body.
func (f LicenseGetTrialStatus) WithFilterPath(v ...string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetTrialStatus) WithHeader(h map[string]string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetTrialStatus) WithOpaqueID(s string) func(*LicenseGetTrialStatusRequest) {
 return func(r *LicenseGetTrialStatusRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi
```

```
import (
 "context"
 "net/http"
 "strconv"
 "strings"
)

func newLicensePostStartBasicFunc(t Transport) LicensePostStartBasic
 {
 return func(o ...func(*LicensePostStartBasicRequest)) (*Response, error) {
  var r = LicensePostStartBasicRequest{}
  for _, f := range o {
   f(&r)
  }
  return r.Do(r.ctx, t)
 }
}

// ----- API Definition -------------------------------------------------------

// LicensePostStartBasic - Starts an indefinite basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-basic.html.
type LicensePostStartBasic func(o ...func(*LicensePostStartBasicRequest)) (*Response, error)

// LicensePostStartBasicRequest configures the License Post Start Basic API request.
type LicensePostStartBasicRequest struct {
 Acknowledge *bool

 Pretty     bool
 Human      bool
 ErrorTrace bool
 FilterPath []string

 Header http.Header

 ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartBasicRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
 var (
  method string
  path   strings.Builder
  params
 map[string]string
 )
```

```
method = "POST"

path.Grow(len("/_license/start_basic"))
path.WriteString("/_license/start_basic")

params = make(map[string]string)

if r.Acknowledge != nil {
 params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
}

if r.Pretty {
 params["pretty"] = "true"
}

if r.Human {
 params["human"] = "true"
}

if r.ErrorTrace {
 params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
 params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
 return nil, err
}

if len(params) > 0 {
 q := req.URL.Query()
 for k, v := range params {
  q.Set(k, v)
 }
 req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
 if len(req.Header) == 0 {
  req.Header = r.Header
 } else {
  for k, vv := range r.Header {
   for _, v := range vv {
    req.Header.Add(k, v)
```

```
   }
  }
 }
}

if ctx != nil {
 req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
 return nil, err
}

response := Response{
 StatusCode: res.StatusCode,
 Body:       res.Body,
 Header:     res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartBasic) WithContext(v context.Context) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.ctx = v
 }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartBasic) WithAcknowledge(v bool) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.Acknowledge = &v
 }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePostStartBasic) WithPretty() func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.Pretty = true
 }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartBasic) WithHuman() func(*LicensePostStartBasicRequest) {
 return
```

```
 func(r *LicensePostStartBasicRequest) {
  r.Human = true
 }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartBasic) WithErrorTrace() func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.ErrorTrace = true
 }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartBasic) WithFilterPath(v ...string) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  r.FilterPath = v
 }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartBasic) WithHeader(h map[string]string) func(*LicensePostStartBasicRequest) {
 return func(r *LicensePostStartBasicRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  for k, v := range h {
   r.Header.Add(k, v)
  }
 }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartBasic) WithOpaqueID(s string) func(*LicensePostStartBasicRequest)
 {
 return func(r *LicensePostStartBasicRequest) {
  if r.Header == nil {
   r.Header = make(http.Header)
  }
  r.Header.Set("X-Opaque-Id", s)
 }
}
```

1.45 ca-certificates 20241121-r1

1.45.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
```

```
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.46 busybox 1.37.0-r12

1.46.1 Available under license :

```
bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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<signature of Ty Coon>, 1 April 1989
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Vice

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1.47 ssl-client 1.37.0-r12

1.47.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

bzip2 applet in busybox is based on lightly-modified source
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==========

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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# Contributor: Maxim Karasev <begs@disroot.org>
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pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
```

```
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"

```
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
```

7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"

```
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
```

```
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

1.48 common 0.62.0

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1.49 prometheus-common 0.62.0

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1.50 github.com/confluentinc/confluent-kafka-go/v2 2.8.0

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---

librdkafka - Apache Kafka C driver library

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* Version 1.1 1 Aug 2013 Mark Adler
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---

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Coda Hale's Golang HdrHistogram https://github.com/codahale/hdrhistogram
at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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---
src/rdxxhash.[ch] src/lz4*.[ch]: git@github.com:lz4/lz4.git 5ff839680134437dbf4678f3d0c7b371d84f4964

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---
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# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
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pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.57 alpine-baselayout-data 3.6.8-r1

1.57.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
```

```
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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95052.
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=0

```
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
 cd "$builddir"
 python3 setup.py build || return 1
}

package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
  flake8-copyright-0.2.0.tar.gz"
```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl

```
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="   "
depends="$cpandepends"
```

```
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
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1.58 x-sys 0.30.0

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1.59 protobuf-go 1.36.5

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1.61 openssl 3.3.3-r0

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1.64 golang 1.24.0

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
```

```
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.65 alpine-base 3.21.3-r0

1.65.1 Available under license :

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
```

```
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
```

```
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

```
 Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
```

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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}

```
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}
```

```
package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

mini_sendmail - accept email on behalf of real sendmail

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers
```

```
package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
```

```
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Contributor: Francesco Colista <fcolista@alpinelinux.org>
# Maintainer: Bart Ribbers <bribbers@disroot.org>
pkgname=qt5-qtsensors
pkgver=5.15.10_git20230424
pkgrel=1
_module="${pkgname#qt5-}"
_pkgver=45c04582b15a9bb4be01ae99aa7fda1bbba7d0df
_fullname=$_module-$_pkgver
pkgdesc="+The Qt Sensors API provides access to sensor hardware via QML and C++"
url="https://www.qt.io/developers/"
arch="all !armhf" # armhf blocked by qt5-qtdeclarative
license="LGPL-2.1-only AND LGPL-3.0-only AND GPL-3.0-only AND Qt-GPL-exception-1.0"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
```

```
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

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pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl

}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"

1.66 musl-utils 1.2.5-r9

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1.67 apk-tools 2.14.6-r3

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1.68 stdlib go1.24.0

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"

```
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
```

```
  return nil
 }
 for _, ok := range permitted {
  if bytes.HasPrefix(b, ok) {
   return nil
  }
 }
 t.Errorf("%s: missing copyright notice", path)
 return nil
})
}
```

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1.71 github.com/go-logr/stdr 1.2.2

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1.72 alpine-release 3.21.3-r0

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```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
```

```
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
```

```
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
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# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
```

```
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.73 klauspost-compress 1.18.0

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Files: snappy/*
Files: internal/snapref/*

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1.76 elastic-transport-go 8.6.1

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on: [pull_request]
jobs:
 license-check:
   runs-on: ubuntu-latest
   steps:

```
    - uses: actions/checkout@v2
    - name: Check license headers
      run: ./.github/check-license-headers.sh
```

```
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1.77 github.com/elastic/elastic-transport-go/v8 8.6.1

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```
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on: [pull_request]
jobs:
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   runs-on: ubuntu-latest
   steps:
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     - name: Check license headers
       run: ./.github/check-license-headers.sh
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1.78 curl 8.12.1-r1

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1.79 prometheus-client-model 0.6.1

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