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1.5 brave-instrumentation-spring-web 5.9.0

1.6 openjdk 1.8.0.45 28.b13.el6_6

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glennrp at users.sourceforge.net
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see {@link Type Type}).
* @param mv
*    the method visitor to which this adapter delegates calls. May
*    be <tt>null</tt>.
* @throws IllegalStateException
*    If a subclass calls this constructor.
*/

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/xml/Processor.java
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jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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 */
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*
* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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 */
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 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 * @throws IllegalArgumentException
 * @throws @see {Textifier}#toString()
 * @throws If a subclass calls this constructor.
 */
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*/
/**
* Constructs a new [@link ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #ClassNode(int)]
* version.
*
* @throws IllegalStateException
* @throws IllegalArgumentException
* @throws IllegalAccessException
* @throws InvocationTargetException
* @throws InvalidAccessException
* @throws InstantiationException
* @throws NoSuchMethodException
* @throws SecurityException
*/
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 */
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 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [@link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
* @param name
  * the method's name.
* @param desc
  * the method's descriptor (see [link Type]).
* @param signature
  * the method's signature. May be <tt>null</tt>.
* @param exceptions
  * the internal names of the method's exception classes (see
  * {link Type#getInternalName() getInternalName}). May be
  * <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
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 * { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see { @link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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1.11 commons-codec 1.10

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1.23 jetty-security 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.24 jersey-client 2.25.1

1.25 hibernate-core 5.3.4.Final

1.26 angular-forms 9.0.7

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js

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Angular
=======

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

License: MIT

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/README.md

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```typescript
/**
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 */

import {InjectionToken} from '@angular/core';

/**
 * @description
 * Defines an interface that acts as a bridge between the Angular forms API and a native element in the DOM.
 *
 * Implement this interface to create a custom form control directive that integrates with Angular forms.
 *
 * @see DefaultValueAccessor
 *
 * @publicApi
```
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   * This method is called by the forms API to write to the view when programmatic changes from model to view are requested.
   * @param obj The new value for the element
   * @param value: any
   * @returns void
   */
  writeValue(obj: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control's value changes in the UI.
   * This method is called by the forms API on initialization to update the form model when values propagate from the view to the model.
   * When implementing the 'registerOnChange' method in your own value accessor, save the given function so your class calls it at the appropriate time.
   * @param fn The callback function to register
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function called by the forms API on initialization to update the form model on blur.
   * When implementing 'registerOnTouched' in your own value accessor, save the given function so your class calls it when the control should be considered blurred or 'touched'.
   * @param fn The callback function to register
   */
  registerOnTouched(fn: any): void;

  /**
   * @description
   * Function that is called by the forms API when the control status changes to or from 'DISABLED'. Depending on the status, it enables or disables the appropriate DOM element.
   * This method is called by the forms API when the control status changes to
   * or from 'DISABLED'. Depending on the status, it enables or disables the appropriate DOM element.
   * @param isDisabled The disabled status to set on the element
   */
  setDisabledState?(isDisabled: boolean): void;
}

/**
 * Used to provide a `ControlValueAccessor` for form controls.
 * @publicApi
 */
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');

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 */

import { Directive, ElementRef, Renderer2, forwardRef } from '@angular/core';

import { ControlValueAccessor, NG_VALUE_ACCESSOR } from './control_value_accessor';

export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
};

/**
 * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input element.
 * This method is called by the forms API on initialization to update the form model when values propagate from the view to the model.
 * The following example shows how to use a checkbox with a reactive form.
 * Using a checkbox with a reactive form.
 * The following example shows how to use a checkbox with a reactive form.
 * const rememberLoginControl = new FormControl(true);
 * formControl.valueChanges.subscribe(value => {
 *   if (value === true) {
 *     // Do something
 *   }
 * });
 */

@Component({
  selector: '[formControlName], [formControl], [ngModel]',
  providers: [CHECKBOX_VALUE_ACCESSOR]
})
export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  rememberLoginControl = new FormControl(true);
  formControl.valueChanges.subscribe(value => {
    if (value === true) {
      // Do something
    }
  });
}

export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  rememberLoginControl = new FormControl(true);
  formControl.valueChanges.subscribe(value => {
    if (value === true) {
      // Do something
    }
  });
}

export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  rememberLoginControl = new FormControl(true);
  formControl.valueChanges.subscribe(value => {
    if (value === true) {
      // Do something
    }
  });
}

export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  rememberLoginControl = new FormControl(true);
  formControl.valueChanges.subscribe(value => {
    if (value === true) {
      // Do something
    }
  });
}

export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  rememberLoginControl = new FormControl(true);
  formControl.valueChanges.subscribe(value => {
    if (value === true) {
      // Do something
    }
  });
}
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
}

/**
 * @description
 * Registers a function called when the control value changes.
 * @param fn The callback function
 * @returns
 */
registerOnChange(fn: (_: any) => {}): void {
  this.onChange = fn;
}

/**
 * @description
 * Registers a function called when the control is touched.
 * @param fn The callback function
 * @returns
 */
registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

constructor(Private, private _elementRef: ElementRef) {
}

/**
 * @description
 * Sets the "checked" property on the input element.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * @description
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void {
  this.onChange = fn;
}

registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

constructor(Private, private _elementRef: ElementRef) {
}

/**
 * @description
 * Sets the "checked" property on the input element.
 * @param value The checked value
 */
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}

/**
 * @description
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
registerOnChange(fn: (_: any) => {}): void {
  this.onChange = fn;
}

registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}
* Returns an array that represents the path from the top-level form to this control.

* Each index is the string name of the control on that level.

```javascript
* get path(): string[] {null
  return null;
}
```

* @description

* Resets the control with the provided value if the control is present.

```javascript
* reset(value: any = undefined): void {
  if (this.control)
    this.control.reset(value);
}
```

* @description

* Reports whether the control with the given path has the error specified.

```javascript
* getError(errorCode: string, path?: Array<string|number>|string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

* @description

* Reports error data for the control with the given path.

```javascript
* getError(errorCode: string, path?: Array<string|number>|string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

* @description

* Gets the name of the control.

```javascript
* getName(): string
```

* @description

* Checks for an error on the control.

```javascript
* hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

* @description

* Resets the control with the provided value if the control is present.

```javascript
* reset(value: any = undefined): void {
  if (this.control)
    this.control.reset(value);
}
```

* @description

* Gets the top-level form directive for the control.

```javascript
* get formDirective(): Form
```

* @description

* Reports error data for the control with the given path.

```javascript
* getError(errorCode: string, path?: Array<string|number>|string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

* @description

* Resets the control with the provided value if the control is present.

```javascript
* reset(value: any = undefined): void {
  if (this.control)
    this.control.reset(value);
}
```

* @description

* Checks for an error on the control.

```javascript
* hasError(errorCode: string, path?: Array<string|number>|string): boolean {
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  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

* @description

* Resets the control with the provided value if the control is present.

```javascript
* reset(value: any = undefined): void {
  if (this.control)
    this.control.reset(value);
}
```

* @description

* Checks for an error on the control.

```javascript
* hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```
export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form
 * controls that sets CSS classes
 * based on control status.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 *
 * The following classes are applied as the properties become true:
 * @ngClassUntouched @ngClassPristine @ngClassValid @ngClassInvalid @ngClassPending
 * @ngControlStatusHost
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * based on control status (valid/invalid/dirty/etc).
 *
 * @see `NgControlStatus`
 */
@Directive({
  selector: '[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

*ng* @publicApi *

```typescript
export const NG_ASYNC_VALIDATORS =
    new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regex matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`.
 * - A `label` cannot begin or end with a dash (`-`) and is `periods`.
 * - The whole address cannot be longer than 254 characters.
 *
 * All enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).
 * The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 *
 * Any email address that can be used by form controls.
 * A validator is a function that processes a `FormControl` or collection of `controls` and returns an error map or null. A null map means that validation has passed.
 *
 * @see [Form Validation](https://angular.io/guide/form-validation)
 * @publicApi
 */
export class Validators {
  /**
   * Validator that requires the control's value to be greater than or equal to the provided number.
   * @usageNotes
   *
   * ### Validate against a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: {min: 3, actual: 2}}
   * ```
   *
   * @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   */
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }

  /**
   * Validator that requires the control's value to be less than or equal to the provided number.
   * @usageNotes
   *
   * ### Validate against a maximum of 15
   *
   * ```typescript
   * const control = new FormControl(16, Validators.max(15));
   *
   * console.log(control.errors); // {max: {max: 15, actual: 16}}
   * ```
   *
   * @returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
    };
  }

  /**
   * Validator that requires the control to have a non-empty value.
   * @usageNotes
   *
   * ### Validate that the field is not empty
   *
   * ```typescript
   * const control = new FormControl('', Validators.required);
   *
   * console.log(control.errors); // {required: true}
   * ```
   *
   * @returns An error map with the `required` property if the validation check fails, otherwise `null`.
   */
  static required(): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value > 0 ? {'required': true} : null;
    };
  }
}
```

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```typescript
const control = new FormControl('1', Validators.pattern('[a-zA-Z \*]*'));
```

The `pattern` attribute is used for required checkboxes. This validator is commonly used for required checkboxes.

### Validate that the field value is true

```typescript
@required: true
```

```html
<input required>
```

The above pattern is suitable for common usecases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)

- [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

This validator is also provided by default if you use the

```typescript
const control = new FormControl('bad@', Validators.email);
```

### Validate that the field has a minimum of 3 characters

```typescript
Validators.minLength(3);
```

- Don't validate empty values to allow optional controls


- Disallow the whole address to be longer than 254 characters.

This validator is also provided by default if you use the

```typescript
const control = new FormControl('Angular', Validators.email);
```

### Validate that the field value is true

```typescript
const control = new FormControl('', Validators.requiredTrue);
```

- Don't validate empty values to allow optional controls


- Disallow the whole address to be longer than 254 characters.

This validator is also provided by default if you use the

```typescript
const control = new FormControl('bad@', Validators.email);
```

### Validate that the field value has a maximum of 5 characters

```typescript
Validators.maxLength(5);
```


- Disallow the whole address to be longer than 254 characters.

This validator is also provided by default if you use the

```typescript
const control = new FormControl('bad@', Validators.email);
```

### Validate that the field value matches a valid email pattern


- Disallow the whole address to be longer than 254 characters.

This validator is also provided by default if you use the

```typescript
const control = new FormControl('bad@', Validators.email);
```
```javascript
console.log(control.errors); // {requiredPattern: '^[a-zA-Z ]*$', actualValue: '1'}
```

```html
<input pattern="^[a-zA-Z ]*">
```
```javascript
import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RADIO_VALUE_ACCESSOR = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * @description
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * @description
   * Removes a control from the internal registry. For internal use only.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }

  /**
   * @description
   * Removes a control from the internal registry. For internal use only.
   */
  removeIfSelected(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._isSameGroup(this._accessors[i][1], accessor)) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor) {
    return controlPair[0].control === accessor.control;
  }
}
```

controlPair[0]._parent === accessor._control._parent &
controlPair[1].name === accessor.name;}

/> **
* @description
* The `ControlValueAccessor` for writing radio control values and listening to radio control
changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
* `NgModel` directives. In * * @usageNotes
* Using radio buttons with reactive form directives in *
* The follow example shows how to use radio buttons in a reactive form. When using radio buttons
inn * a reactive form, radio buttons in the same group should have the same `formControlName`. In * Providing a `name` attribute is optional.

@Input() name: string; /**
* @description
* The registered callback function called when a change event occurs on the input element.

onChange = () => {};

/**
* @description
* The registered callback function called when a blur event occurs on the input element.

onTouched = () => {};

/**
* @description
* Tracks the name of the radio input element.

@Input() name: string; /**
* @description
* Tracks the name of the `FormControl` bound to the directive. The name corresponds
* to a
* key in the parent `FormGroup` or `FormArray`. In * /!
* remove '!':

@Input()

/**
* @description
* The registered callback function called when a change event occurs on the input element.

onChange = () => {};

/**
* @description
* The registered callback function called when a blur event occurs on the input element.

onTouched = () => {};

/**
* @description
* Tracks the name of the radio input element.

@Input() name: string; /**
* @description
* Tracks the value of the radio input element.

@Input() value: any; /**
* @description
* The registered callback function called when a change event occurs on the input element.

onChange = () => {};

/**
* @description
* The registered callback function called when a blur event occurs on the input element.

onTouched = () => {};

/**
* @description
* Tracks the name of the radio input element.

@Input() name: string; /**
* @description
* The state of the `ControlValueAccessor`.

@Input() value: any; /**
* @description
* The state of the `ControlValueAccessor`.

@Input() value: any;
`FormControlName`, and `NgModel` directives. The following example shows how to use a range input with a reactive form

```ts
const ageControl = new FormControl();
```  

```ts
<input type="range" [formControlName]="ageControl">
```  

In your class

```ts
onTouched: () => { };
```  

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
  ```  

```ts
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
}
```  

```ts
registerOnChange(fn: (_: number|null) => void): void {
  this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
}
```  

```ts
registerOnTouched(fn: () => void): void { this.onTouched = fn; }
```  

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```
$ {Examples.formControlName}(): void { 
  throw new Error('formGroupName must be used with a parent formGroup directive. You will want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
  Example:

$ {Examples.formArrayName}(): void { 
  throw new Error('formArrayName must be used with a parent formGroup directive. You will want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
  Example:

SELECT_VALUE_ACCESSOR: StaticProvider = { provide: NG_VALUE_ACCESSOR, useExisting: forwardRef(() => SelectControlValueAccessor), multi: true };}

@Directive(
  {
    selector: `select:not([multiple])[formControlName], select:not([multiple])[formControl]`
  }
)
@Input() ngSelected: boolean;

// This method is called by the FormControl or FormControlName. It
// receives a $viewModel from the selected value accessor and updates
// selectedCountries.

selectCountries(value) { 
  if (this.selectedCountries.indexOf(value) < 0) { 
    this.selectedCountries.push(value); 
  } else { 
    this.selectedCountries.splice(this.selectedCountries.indexOf(value), 1); 
  } 
}

ngSelected = false;

selectCountries: SelectCountries = new SelectCountries(
  this.formControl || this.formControlName || this.formArrayName || this.formControlGroup || this.formArrayGroup || this.formGroup, 
  this.formControlView, this.formArrayView, this.formControlGroupView, this.formArrayGroupView, 
  this.formControlGroupTemplate, this.formArrayGroupTemplate, 
  this.formControlArrayTemplate, this.formArrayArrayTemplate, 
  this>false 
)

@Input() [value]: any;

@Input() [form]: any;

@Input() [formControl]: any;

@Input() [formArray]: any;

@Input() [formGroupName]: any;

@Input() [formArrayName]: any;

@Input() [ngModel]: any;

@Input() [ngSelected]: boolean;

@Input() [selectCountries]: SelectCountries;

@Input() [selectNotMultiple]: boolean;

@Input() [selectNotMultiple][formControlName]: any;

@Input() [selectNotMultiple][formArrayName]: any;

@Input() [selectNotMultiple][formControlGroup]: any;

@Input() [selectNotMultiple][formArrayGroup]: any;

@Input() [selectNotMultiple][FormGroup]: any;

@Input() [selectNotMultiple][Array]: any;

@Input() [selectNotMultiple][control]: any;

@Input() [selectNotMultiple][group]: any;

@Input() [selectNotMultiple][array]: any;

@Input() [selectNotMultiple][controlGroup]: any;

@Input() [selectNotMultiple][groupGroup]: any;

@Input() [selectNotMultiple][arrayGroup]: any;

@Input() [selectNotMultiple][FormGroupGroup]: any;

@Input() [selectNotMultiple][ArrayArray]: any;

@Input() [selectNotMultiple][controlControl]: any;

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@Input() [selectNotMultiple][arrayControlControlControlControlControl]: any;

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@Input() [selectNotMultiple][arrayControlControlControlControlControlControlControlControl]: any;

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@Input() [selectNotMultiple][ArrayArrayArrayArrayArrayArrayArrayArrayArrayArray]: any;

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@Input() [selectNotMultiple][groupControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][arrayControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][controlGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][groupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][arrayGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][FormGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

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@Input() [selectNotMultiple][controlControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][groupControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][arrayControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][controlGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][groupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][arrayGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][FormGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][ArrayArrayArrayArrayArrayArrayArrayArrayArrayArrayArrayArray]: any;

@Input() [selectNotMultiple][controlControlControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][groupControlControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][arrayControlControlControlControlControlControlControlControlControlControlControl]: any;

@Input() [selectNotMultiple][controlGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][groupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][arrayGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][FormGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroupGroup]: any;

@Input() [selectNotMultiple][ArrayArrayArrayArrayArrayArrayArrayArrayArrayArrayArrayArrayArray]: any;
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();

  /** @description */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the select input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(): string {
    return (this._idCounter++).toString();
  }

  /** @internal */
  _getOptionId(value: any): string | null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
  }
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 *
 * @see `SelectControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  id: string | null;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * @description
   * Tracks the value bound to the option element. Unlike the value binding, *ngValue supports
   * binding to objects.
   */
  @Input('value')
  set value(value: any) {
    this._setElementValue(value);
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

/**
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 *
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 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from...
export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  multi: true,
  useExisting: forwardRef(() => SelectMultipleControlValueAccessor),
  useFactory: (factory) => factory as ControlValueAccessor,
};

function _buildValueString(id: string, value: any): string {
  if (id == null) return `${value}`;
  if (typeof value === 'string') value = `'${value}'`;
  if (value && typeof value === 'object') value = 'Object';
  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

/** Mock interface for HTML Options */
interface HTMLOption {
  value: string;
  selected: boolean;
}

/** Mock interface for HTMLCollection */
abstract class HTMLCollection {
  length: number;
  item(_: number): HTMLOption;
  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
}

/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives. @see `SelectControlValueAccessor` Using a multi-select control
 * The follow example shows you how to use a multi-select control with a reactive form.

 * * const countryControl = new FormControl();* 
 * * select multiple
 * "countries\"* 
 * * let country of countries\"* 
 * * const countryControl = new FormControl();* 
 * * select\"* 
 * * host: '{\"change\":' on\'serve(\'event.target\', \'blur\');' on\'Touched\'()}* 
 * * providers:*

 ControlValueAccessor* 
 * **\n * @description
 * The current value
 * value: any;
 * The registered callback function called
 * when a change event occurs on the input element.
 * The registered callback function called when a blur event occurs on the input element.
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * value: any;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
 * Sets the \"value\" property on one or more of the select's options.
 * function: (fn: (fn: any) => any) => void;
 * The function compares the given option against the existing options in the control.
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```
Validators.composeAsync((control.asyncValidator !, dir.asyncValidator));

dir.valueAccessor
  .writeValue(control.value);

control._clearChangeFns();

control._pendingChange = false;

 Validators.compose(validators: Array<Validator|ValidatorFn>);

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>):
    AsyncValidatorFn|null {
      return Validators.compose(validators.map(normalizeAsyncValidator));

const BUILTIN_ACCESSORS = [
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor):
[91x101] boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]):
  void {
    form._syncPendingControls();
  }
```
directives.forEach(dir => {
  const control = dir.control as FormControl;
  if (control.updateOn === 'submit' &
控制_pendingChange) {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit') {
      control.viewToModelUpdate(control.pendingValue);
      control._pendingChange = false;
    }
  }
})

// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with:
    control._pendingChange = false;
  if (control.updateOn === 'submit') {
    control.viewToModelUpdate(control.pendingValue);
    control._pendingChange = false;
  }
}

// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with:
    control._pendingChange = false;
  if (control.updateOn === 'submit') {
    control.viewToModelUpdate(control.pendingValue);
    control._pendingChange = false;
  }
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(
    name: string,
    type: {_ngModelWarningSentOnce: boolean},
    instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;
  if (((warningConfig === null ||
      warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' &&
      !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

*/
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* that can be found in the LICENSE file at https://angular.io/license
*/

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and
 * errors are not yet available for the input value.
 * @see `markAsPending`
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor calculations of validity or value.
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.controls[<number>name] || null;
    } else {
      controlToFind = null;
    }
  })

  return null;
}
const origAsyncValidator =
    (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
        AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
    AsyncValidatorFn | null;\
    return Array.isArray(origAsyncValidator) ?
    composeAsyncValidators(origAsyncValidator) : origAsyncValidator ||
    null;

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an
 * AbstractControl.
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?:
    AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * @description
   * The event name for control to update
   * upon.
   */
  updateOn?: 'change'|'blur'|'submit';
}

function isOptionsObj(
    validatorOrOpts?: ValidatorFn
    | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
      !Array.isArray(validatorOrOpts) &&
      typeof validatorOrOpts === 'object';
}

/**
 * This is the base class
 * for `FormControl`, `FormGroup`, and `FormArray`.
 *
 * It provides some of the shared behavior that all controls
 * and groups of controls have, like running validators, calculating status, and resetting state. It also defines the
 * properties that are shared between sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be
 * instantiated directly.
 * @see [Forms Guide](/guide/forms)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @see [Dynamic Forms Guide](/guide/dynamic-form)
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn !: FormHooks;

  // TODO(issue/24571): remove '!'.
  private _parent !: FormGroup | FormArray;

  /**
   * The current value of the control.
   * @see [Forms Guide](/guide/forms)
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  public readonly value: any;

  /**
   * Initialize the AbstractControl instance.
   * @see [Forms Guide](/guide/forms)
   */
  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

  /**
   * The parent control.
   */
  get parent(): FormGroup|FormArray { return this._parent; }

  /**
   * A control is `valid` when its `status` is `VALID`.
   *
   * @returns True if the control has passed all of its validation tests,
   * false otherwise.
   */
  get valid(): boolean { return this.status === VALID; }

  /**
   * A control is `invalid` when its `status` is `INVALID`.
   *
   * @returns True if the control has failed one or more of its validation checks,
   * false otherwise.
   */
  get invalid(): boolean { return this.status === INVALID; }

  /** A control is `pending` when its `status` is `PENDING`.
   *
   * @returns True if the control is in the process of conducting a validation
   * check.
   */
  get pending(): boolean { return this.status === PENDING; }

  /** A control is `disabled` when its `status` is `DISABLED`.
   *
   * @returns True if the control is disabled, false otherwise.
   */
  get disabled(): boolean { return this.status === DISABLED; }

  /**
   * A control is `enabled` as long as its `status` is not `DISABLED`.
   *
   * @returns True if the control has any status other than `DISABLED`, false if the
   * status is `DISABLED`.
   */
  get enabled(): boolean { return this.status !== DISABLED; }

  /**
   * A control is `refreshed` when its `status` is `SUCCESS`.
   * @returns True if the control has been refreshed, false otherwise.
   */
  get refreshed(): boolean { return this.status === SUCCESS; }

  /**
   * A control is `invalidated` when its `status` is `INVALID`.
   * @returns True if the control is invalid, false otherwise.
   */
  get invalidated(): boolean { return this.status === INVALID; }

  /**
   * A control is `cleaned` when its `status` is `SUCCESS`.
   * @returns True if the control has been cleaned, false otherwise.
   */
  get cleaned(): boolean { return this.status === CLEANED; }

  /**
   * A control is `dirty` when its `status` is `PENDING`.
   * @returns True if the control is dirty, false otherwise.
   */
  get dirty(): boolean { return this.status === PENDING; }

  /**
   * A control is `dirty` when its `status` is `SUCCESS`.
   * @returns True if the control is dirty, false otherwise.
   */
  get dirty(): boolean { return this.status === SUCCESS; }

  /**
   * A control is `dirty` when its `status` is `SUCCESS`.
   * @returns True if the control is dirty, false otherwise.
   */
  get dirty(): boolean { return this.status === SUCCESS; }

  /**
   * A control is `dirty` when its `status` is `SUCCESS`.
   * @returns True if the control is dirty, false otherwise.
   */
  get dirty(): boolean { return this.status === SUCCESS; }
is 'DISABLED'.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'touched'. A control is touched by focus and blur events that do not change the value. When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'untouched'. A control is marked 'touched' once the user has triggered a `blur` event on it. Public readonly touched: boolean = false;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control and all its descendant controls as 'touched'. A control is touched by focus and blur events that do not change the value.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'dirty'. A control is marked 'dirty' once the user has triggered a `blur` event on it. Public readonly dirty: boolean = true;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'untouched'. A control is marked 'touched' once the user has triggered a `blur` event on it. Public readonly touched: boolean = false;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'dirty'. A control is marked 'dirty' once the user has triggered a `blur` event on it. Public readonly dirty: boolean = true;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control and all its descendant controls as 'touched'. A control is touched by focus and blur events that do not change the value. When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'untouched'. A control is marked 'touched' once the user has triggered a `blur` event on it. Public readonly touched: boolean = false;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control and all its descendant controls as 'touched'. A control is touched by focus and blur events that do not change the value. When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as 'dirty'. A control is marked 'dirty' once the user has triggered a `blur` event on it. Public readonly dirty: boolean = true;

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.
this._pendingTouched = false

this._forEachChild(
control: AbstractControl) => {
  control.markAsUntouched({onlySelf: true});
});

if (this._parent && !opts.onlySelf) {
  this._parent.updateTouched(opts);
}

/**
 * Marks the control as `dirty`. A control becomes dirty when its control's value is changed through the UI; compare `markAsTouched`.
 * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
 * @param `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = false;

  if (this._parent && !opts.onlySelf) {
    this._parent.markAsDirty(opts);
  }
}

/**
 * Marks the control as `pristine`.
 * If the control has any children, marks all children as `pristine`, and recalculates the `pristine` status of all parent controls.
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * @param `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsPristine(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = true;

  this._pendingDirty = false;

  this._forEachChild((control: AbstractControl) => { control.markAsPristine({onlySelf: true}); });

  if (this._parent && !opts.onlySelf) {
    this._parent.markAsPristine(opts);
  }
}

/**
 * Marks the control as `pending`.
 * A control is pending while the control performs async validation.
 * If the control has children, all children are marked pending.
 * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
 * @param `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 * @param `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending.
 * When false, no events are emitted.
 */
markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  (this as {status: string}).status = PENDING;

  if (opts.emitEvent !== false) {
    (this.statusChanges as EventEmitter<any>).emit(this.status);
  }

  if (this._parent && !opts.onlySelf) {
    this._parent.markAsPending(opts);
  }
}

/**
 * Disables the control. This means the control is exempt from validation checks and excludes the aggregate value of any parent. Its status is `DISABLED`.
 * If the control has children, all children are also disabled.
 * @param opts Configure options that control how the control propagates changes and emits events after the control is disabled.
 * @param `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the status
  // parent's dirtiness based on the children.
  // const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  // (this as {status: string}).status = PENDING;

  (this as {status: string}).status = DISABLED;

  (this as {errors: ValidationErrors | null}).errors = null;

  this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });

  this._updateValue();

  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }

  this._updateAncestors({...opts, skipPristineCheck: true});
}

this._updateValue();

if (opts.emitEvent !== false) {
  (this.valueChanges as EventEmitter<any>).emit(this.value);
}

this._updateAncestors();

this.onDisabledChange.forEach((changeFn) => changeFn(true));

/**
 * Enables the control. This means the control is included in validation checks and
 * the aggregate value of its parent. Its status recalculates based on its value and its validators.
 * By default, if the control has children, all children are enabled.
 * @param opts Configure options that control how the control propagates changes and emits events when marked as untouched.
 * @param `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
enable(opts: {onlySelf?: boolean} = {}): void {
  (this as {statusChanges as EventObserver<any>>}.emit(this.status));

  this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });

  this._updateValue();

  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
  }

  this._updateAncestors({...opts, skipPristineCheck: true});

  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
  }

  this._updateAncestors();

  this.onDisabledChange.forEach((changeFn) => changeFn(true));
}

this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });

this._updateValue();

if (opts.emitEvent !== false) {
  (this.valueChanges as EventEmitter<any>).emit(this.value);
}

this._updateAncestors({...opts, skipPristineCheck: true});

this.onDisabledChange.forEach((changeFn) => changeFn(true));

*/

static PENDING = 'PENDING';

static DISABLED = 'DISABLED';

static pristine = true;

static dirty = false;

static pending = true;

static touched = true;

static untouched = false;

static pristineDirty = true;

static pristineUntouched = false;

static touchedDirty = true;

static touchedUntouched = false;

static value = null;

static errors = null;

static statusChanges = new EventEmitter<string>();

static valueChanges = new EventEmitter<any>();

static statusChanges = new EventEmitter<string>();

static valueChanges = new EventEmitter<any>();
control is enabled.

* When false, no events are emitted.

`enable` function:

```javascript
void (opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  this._forEachChild((control: AbstractControl) => {
    if (!control.enable({...opts, onlySelf: true})); });
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  this._updateAncestors({...opts, skipPristineCheck});
}
```

* Sets the parent of the control.

`setParent` function:

```javascript
void (parent: FormGroup|FormArray): void {
  this._parent = parent;
}
```

* Abstract method (implemented in sub-classes).

`updateValueAndValidity` function:

```javascript
void (opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._onDisabledChange.AlertDialog((changeFn) => changeFn(false));
  this._private_updateAncestors();
  this._setInitialStatus();
  this._updateValue();
  if (this.enabled) {
    this._cancelExistingSubscription();
    this._runValidator();
    this._calculateStatus();
    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(emitEvent);}
  }
  if (this.valueChanges as EventEmitter<any>).emit(this.value);
  if (this.statusChanges as EventEmitter<string>).emit(this.status);}

private _updateControlsErrors(emitEvent: boolean): void {
  (this as{errors: ValidationErrors | null}).errors = this._allErrors();
  (this as{status: string}).status = this._calculateStatus();
  if (this.status === VALID || this.status === PENDING) {
    this._asyncValidationSubscription.unsubscribe();
    this._runAsyncValidator(emitEvent);
    if (this._parent && !this.onlySelf) {
      this._parent.updateValueAndValidity({onlySelf: true});
    }
  }
  if (this._parent && !this.onlySelf) {
    this._parent.updateTouched();
  }
}
```

* Private method (implemented in sub-classes).

`updateTreeValidity` function:

```javascript
void (opts: {emitEvent?: boolean} = {emitEvent: true}): void {
  this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
}
```

* Private method (implemented in sub-classes).

`setErrors` function:

```javascript
void (errors: ValidationErrors | null, opts: {emitEvent?: boolean} = {}): void {
  (this as{errors: ValidationErrors | null}).errors = errors;
  this._updateControlsErrors(opts.emitEvent);}
```
```typescript
get(path: Array<string|number>|string): AbstractControl|null {
  return _find(this, path, '.'); }

/**
 * @description
 * Reports error data for the control with the given path.
 * @param errorCode The code of the error to check
 * @param path A list of control names that designates how to move from the current control
 * to the control that should be queried for errors.
 * @param usageNotes
 * For example, for the following `FormGroup`:
 * ```
 * form = new FormGroup({
 *   address: new FormControl()
 * });
 * ```
 * The path to the ‘street’ control from the root form would be ‘address’ -> ‘street’.
 * It can be provided to this method in one of two formats:
 * ```
 * `this.form.get(['person', 'name']);`
 * ```
 * */
  getError(errorCode: string, path?:
  Array<string|number>|string): any {
    const control = path ? this.get(path) : this;
    return control &&
    control.errors ? control.errors[errorCode] : null;
  }

  hasError(errorCode: string, path?:
  Array<string|number>|string): boolean {
    return !!this.getError(errorCode, path);
  }

  root(): AbstractControl {
    let x: AbstractControl = this;
    while
    (x._parent) {
      x = x._parent;
    }
    return x;
  }

  _updateControlsErrors(emitEvent:
  boolean): void {
    (this as{status: string}).status = this._calculateStatus();
    if (emitEvent) {
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    if (this._parent) {
      this._parent._updateControlsErrors(emitEvent);
    }
  }

  _initObservables() {
    (this as{valueChanges: Observable<any>}).valueChanges = new EventEmitter();
    (this as{statusChanges: Observable<any>}).statusChanges = new EventEmitter();
  }

  _calculateStatus(): string {
    if
    (this._allControlsDisabled()) return DISABLED;
    if (this.errors) return INVALID;
    if
    (this._anyControlsHaveStatus(PENDING)) return PENDING;
    if (this._anyControlsHaveStatus(INVALID))
    return INVALID;
    return VALID;
  }

  _updatePristine(opts?:
  {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = !this._anyControlsDirty();
    if (this._parent && !opts.onlySelf) {
      this._parent._updatePristine(opts);
    }
  }

  _updateTouched(opts?:
  {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = this._anyControlsTouched();
    if (this._parent && !opts.onlySelf) {
      this._parent._updateTouched(opts);
    }
  }
```

AbstractControlOptions).updateOn != null) {
  if (this._updateOn = (opts as AbstractControlOptions).updateOn !== null) {
    this._parentMarkedDirty(onlySelf?: boolean) = true;
  }
  } else {
    return onlySelf & parentDirty & !this._parent.anyControlsDirty();
  }
}

/**
 * Check to see if parent has been marked artificially dirty.
 * @internal
 */
private _parentMarkedDirty(onlySelf?: boolean) = true;

export class FormControl extends AbstractControl {
  /** @internal */
  _pendingValueChanged: any;

  /**
   * Creates a new `FormControl` instance.
   *
   * @param formState Initializes the control with an initial value,
   * or an object
   * that defines the initial value and disabled state.
   *
   * @param validatorOrOpts A synchronous validator function,
   * or an array of
   * such functions, or an `AbstractControlOptions` object that contains validation functions
   * and a
   * validation trigger.
   *
   * @param asyncValidator A single async validator or array of async validator functions
   * or an
   * `AbstractControlOptions` object that contains validation functions
   * and a
   * validation trigger.
   *
   * @constructor
   */
  constructor(
      formState: any = null,
      validatorOrOpts?: ValidatorFn|ValidatorFn[],
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[],
      asyncValidator: any = null) {
    super(
        coerceToValidator(validatorOrOpts),
        coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._applyFormState(formState);
    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
    this._initObservables();
}

/**
 * Sets a new value for the form control.
 * @param value The new value for the control.
 * @param options Configuration options that determine how the control propagates
 * changes
 * and emits events when the value changes.
 * @param onChanged: true, emitChangeEvent: false)
 */
private _setUpdateStrategy(validatorOrOpts: any) {
  this._initObservables();
  this._pendingValueChanged = any;
  this._pendingChange = any;
  this._parentMarkedDirty(onlySelf?: boolean) = true;
  this._parent.anyControlsDirty();
  this._updateOn = (validatorOrOpts as any).updateOn !== null;
  this._parent._anyControlsDirty();
}

/**
 * Tracks the value and validation status of an individual form control.
 * This is one of the three fundamental building blocks of Angular forms, along
 * with `FormGroup` and `FormArray`. It extends the `AbstractControl` class
 * that implements most of the base functionality for accessing the value,
 * validation status, user interactions and events.
 * @see `AbstractControl`
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see [Usage Notes](#usage-notes)
 */
export class FormControl extends AbstractControl {
  /**
   * Creates a new `FormControl` instance.
   *
   * @param formState Initializes the control with an initial value,
   * or an object
   * that defines the initial value and disabled state.
   *
   * @param validatorOrOpts A synchronous validator function,
   * or an array of
   * such functions, or an `AbstractControlOptions` object that contains validation functions
   * and a
   * validation trigger.
   *
   * @param asyncValidator A single async validator or array of async validator functions
   * or an
   * `AbstractControlOptions` object that contains validation functions
   * and a
   * validation trigger.
   *
   * @constructor
   */
  constructor(
      formState: any = null,
      validatorOrOpts?: ValidatorFn|ValidatorFn[],
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[],
      asyncValidator: any = null) {
    super(
        coercetoValidator(validatorOrOpts),
        coercetoAsyncValidator(asyncValidator, validatorOrOpts));
    this._applyFormState(formState);
    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
    this._initObservables();
  }

  /**
   * Sets a new value for the form control.
   * @param value The new value for the control.
   * @param options Configuration options that determine how the control propagates
   * changes
   * and emits events when the value changes.
   * @param onChanged: true, emitChangeEvent: false)
   */
  private _setUpdateStrategy(validatorOrOpts): any {
    this._initObservables();
    this._pendingValueChanged = any;
    this._pendingChange = any;
    this._parentMarkedDirty(onlySelf?: boolean) = true;
    this._parent.anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._parentMarkedDirty(onlySelf?: boolean) = true;
    this._parent.anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOpts as any).updateOn !== null;
    this._parent._anyControlsDirty();
    this._updateOn = (validatorOrOps...
**emitViewToModelChange**: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.

- `getValue()`: Returns the current value.
- `setValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void`:
  - Updates the view.
  - `emitViewToModelChange`: When true or not supplied (the default), each change triggers an ` NGModelChange ` event to update the view.
  - `emitViewToModelChange`: When true or not supplied (the default), each change triggers an ` NGModelChange ` event to update the model.

- `patchValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void`:
  - Updates the view.

- `reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void`:
  - Resets the form control, marking it 'pristine' and 'untouched', and setting value to null.

- `registerOnChange(fn: Function): void`:
  - Registers a listener for change events.

- `registerOnDisabledChange(fn: Function): void`:
  - Registers a listener for disabled events.

- `_clearChangeFns()`: Clears change function arrays.

- `_getChildren(): Array<any>`:
  - Returns an array of all children.

- `_getChildrenDisables()`: Returns an array of all disabled children.

- `_getChildrenInvalids()`: Returns an array of all invalid children.

- `_isBoxedValue(value: any): boolean`:
  - Returns true if the value is boxed.

- `_markAsDirty()`: Marks the form control as dirty.

- `_markAsPristine(options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void`:
  - Marks the form control as pristine.

- `_markAsUntouched(options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void`:
  - Marks the form control as untouched.

- `_setValidity(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void`:
  - Sets the validity state of the form control.

- `_syncPendingChanges()`: Sends pending changes to the server.

- `_updateValueAndValidity()`:
  - Updates the value and validity state of the form control.

- `@Input() controlName: string`:
  - The name of the form control.

- `@Output() statusChanges: EventEmitter`:
  - An event emitted when the status of the form control changes.

- `@Output() valueChanges: EventEmitter`:
  - An event emitted when the value of the form control changes.

---

**FormGroup**

A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. A `FormGroup` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormArray`. When instantiating a `FormGroup`, pass in a collection of child controls as the first argument. The key for each child registers the name for the control.

- `FormGroup({first: new FormControl('Nancy', Validators.minLength(2)), last: new FormControl('Drew')})`:
  - Creates a `FormGroup` with two controls, `'Nancy'` and `'Drew'`.

- `FormGroup({first: new FormControl('Nancy', Validators.minLength(2)), last: new FormControl('Drew')})`:
  - Creates a `FormGroup` with two controls, `'Nancy'` and `'Drew'`.

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```typescript
const form = new FormGroup({
  password: new FormControl('', Validators.minLength(2)),
  passwordConfirm: new FormControl('', Validators.minLength(2)),
}, passwordMatchValidator);

function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value ? null : {'mismatch': true};
}

Like `FormControl` instances, you choose to pass in validators and async validators as part of an options object.

```typescript
const form = new FormGroup({
  password: new FormControl(''),
  passwordConfirm: new FormControl(''),
}, {
  validators: passwordMatchValidator,
  asyncValidators: otherValidator },
);
```

Set the updateOn property for all controls in a form group.

The options object is used to set a default value for each control's `updateOn` property. If you set `updateOn` to 'blur' at the group level, all child controls default to 'blur', unless the child control has explicitly specified a different 'updateOn' value.

```typescript
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

### Set the updateOn property for all controls in a form group

The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to 'blur' at the group level, all controls default to 'blur', unless the control has explicitly specified a different 'updateOn' value.

```typescript
const form = new FormGroup({
  first: new FormControl(''),
  last: new FormControl()
});
```

```typescript
form.setValue({first: 'Nancy', last: 'Drew'});
```

When strict checks fail, such as when a disabled control is set to have a value, an error is thrown.

```typescript
* @param validatorOrOpts A synchronous validator function, or an array of such functions, or an
  `AbstractControlOptions` object that contains validation functions and a validation trigger.
* @param asyncValidator A single async validator or array of async validator functions
  * @param asyncValidator A single async validator or array of async validator functions
  * @param constructor
  ```
as setting the value of a control
   * that doesn't exist or if you exclude a value of a control that does exist.
   * @param value The new value for the control that matches the structure of the group.

   * @param options Configuration options that determine how the control propagates changes
   * and emits events after the value changes.

   * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity
   * updateValueAndValidity } method.

   * @param onlySelf When true, each change only affects this control, and not its parent.

   * Default is `false`. * `emitEvent`: When true or not supplied (the default), both the

   * `statusChanges` and `valueChanges` observable emit events with the latest status and value when the

   * control value is updated.

   * When false, no events are emitted.

   * `setgetValue`: boolean, emitEvent?: boolean = { });

   * void (\n   *   this._checkAllValuesPresent(value);

   * Object.keys(value).forEach(name => {

   *   this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});

   *   this.updateValueAndValidity(options);
   * })

   * @param onlySelf: boolean, emitEvent?: boolean} = {});\n
   *}

   * \n   * \n   * \n
   * The object that matches the structure of the group.

   * @param options Configuration options that determine how the control propagates changes

   * and emits events with the latest status and value when the control value is updated.

   * When false, no events are emitted.

   * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity

   * updateValueAndValidity } method.

   * @param patchValue The value for a form group.

   * @param options Configuration options that determine how the control propagates changes

   * and emits events with the latest status and value when the control value is updated.

   * When false, no events are emitted.

   * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity

   * updateValueAndValidity } method.

   * @param reset The form group values and

   * `statusChanges` and `valueChanges` observable emit events with the latest status and value when the

   * control is reset.

   * When false, no events are emitted.

   * The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity

   * updateValueAndValidity } method.
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```typescript
// The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.

export hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that

methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's

to change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods

```
class FormArray extends AbstractControl {
  /**
   * Creates a new `FormArray` instance.
   *
   * @param controls An array of child controls. Each child control is given an index
   * where it is registered.
   * @param validatorOrOpts A synchronous validator function, or an array of
   * such functions, or an
   * `AbstractControlOptions` object that contains validation functions
   * and a validation trigger.
   * @param asyncValidator A single async validator or array of async validator functions
   * and an constructor
   * public controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
   * asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(
      coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts));
  }

  /**
   * Get the `AbstractControl` at the given index in the array.
   * @param index Index in the array to retrieve the control
   * @param control Form control to be inserted
   * @param push(control: AbstractControl): void {
    this.push(control);
  }

  /**
   * Insert a new `AbstractControl` at the given index in the array.
   * @param index Index in the array to insert the control
   * @param control Form control to be inserted
   * @param insert(index: number, control: AbstractControl): void {
    this.insert(index, control);
  }

  /**
   * Remove the control at the given index in the array.
   * @param index Index in the array to remove the control
   * @param removeAt(index: number): void {
    this.removeAt(index);
  }

  /**
   * Replace an existing control.
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to
   * replace the existing control
   * @param setControl(index: number, control: AbstractControl): void {
    this.setControl(index, control);
  }

  /**
   * Length of the control array.
   * @returns number
   */
  get length(): number { return this.controls.length; }

  /**
   * Sets the value of the `FormArray`. It accepts
   * an array that matches
   * the structure of the control.
   *
   * @param value Array of values for the controls
   * @param options Configure options that determine how the
   * control propagates changes and
   * emits events after the value changes
   *
   * * `onlySelf`: When true, each
   * change only affects this control, and not its parent. Default
   * is false.
   * * `emitEvent`: When true or not
   * supplied (the default), both the `statusChanges` and
   * `valueChanges`
   * observables emit events with the
   * latest status and value when the control value is updated.
   * When false, no events are emitted.
   * The
   * configuration options are passed to the
   * `AbstractControl#updateValueAndValidity` method.
   * @param updateValueAndValidity method.
   * @param setValue(value: any[]), options: {onlySelf?: boolean, emitEvent?:
   * boolean} = {}): void {
    this._checkAllValuesPresent(value);
    value.forEach((newValue: any, index: number) => {
      this._throwIfControlMissing(index);
      this.at(index).setValue(newValue, {onlySelf: true, emitEvent: false});
    });
    this.updateValueAndValidity();
  }
options that determine how the control propagates changes and emit events after the value changes.

`onlySelf`: When true, each change only affects this control, and not its parent. Default is false.

`emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. When false, no events are emitted.

The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.

`patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {`;

```javascript
  value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
} `;

`reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {`;

```javascript
  this._forEachChild((control: AbstractControl, index: number) => {
    control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
} `;

```javascript
/**
 * The aggregate value of the array, including any disabled controls.
 * Reports all values regardless of disabled status.
 * For enabled controls only, the `value` property is the best way to get the value of the array.
 * @returns {any[]} The aggregate value of the array, including any disabled controls.
 */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
    });
  }

/**
 * Remove all controls in the `FormArray`.
 * @returns {void} Remove all controls in the `FormArray`.
 */
  clear(): void {
    if (this.controls.length < 1) return;
    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
    this.controls.splice(0);
    this.updateValueAndValidity();
} `;

/** @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return child._syncPendingControls() ? true : updated;
    }, false);
    if (subtreeUpdated)
      this.updateValueAndValidity({onlySelf: true, emitEvent: options.emitEvent});
    return subtreeUpdated;
  }

/** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.at(index)) {
      throw new Error(`
        There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).
      `);
    }
    if (this.at(index)) {
      throw new Error(`Cannot find form control at index ${index}`);
    }
  }

```javascript
/** @internal */
  _updateIfControlMissing(index: number): void {`;

```javascript
/** @internal */
  _updateValue(): void {
    (this as{value: any}).value =
        this.controls.filter((control) => control.enabled
```
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```
 || this.disabled)
            .map((control) => control.value);
          }

          /** @internal */
          _anyControls(condition: Function): boolean {
            return this.controls.some((control: AbstractControl) => control.enabled &
            condition(control));
          }

          /** @internal */
          _setUpControls(): void {
            this._forEachChild((control: AbstractControl) => this._registerControl(control));
          }

          /** @internal */
          _checkAllValuesPresent(value: any): void {
            this._forEachChild((control: AbstractControl, i: number) => {
              if (value[i] === undefined) {
                throw new Error(`Must supply a value for form control at index: ${i}.`);
              }
            });
          }

          /** @internal */
          _allControlsDisabled(): boolean {
            for (const control of this.controls) {
              if (control.enabled) return false;
            }
            return this.controls.length > 0 || this.disabled;
          }

          private _registerControl(control: AbstractControl) {
            control.setParent(this);
            control._registerOnCollectionChange(this._onCollectionChange);
          }
```

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import {AfterViewInit, Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';
import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl} from './ng_control';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = (()

@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]
```
* The `FormGroup` instance created for this form.
  * @param form: FormGroup
  * @param form: FormGroup

  */
  form: FormGroup;

  /**
   * @description
   * Event emitter for the "ngSubmit" event
   * @param ngSubmit: new EventEmitter()
   * @param ngSubmit: Event
   */
  ngSubmit = new EventEmitter();

  /**
   * @description
   * Tracks options for the 'NgForm' instance.
   * @param ngForm: Form
   * @param ngForm: Form
   * @param updateOn: Sets the default 'updateOn' value for all child
   * 'NgModels' below it unless explicitly set by a child 'NgModel' using 'ngModelOptions'.
   * Defaults to 'change'.
   * @param change: ngAfterViewInit()
   * @param change: _setUpUpdateStrategy();
   * @param change: Form
   * @param change: Form
   * @param get formDirective(): Form
   * @param get formDirective(): Form
   * @param return this;
   * @param return this;
   * @param * @description
   * @param * @description
   * @param * The directive instance.
   * @param * get formDirective(): Form
   * @param * get formDirective(): Form
   * @param return this;
   * @param return this;
   * @param this._setUpUpdateStrategy();
   */
  setupFormContainer(group: FormGroup, dir: NgModelGroup): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      container.registerControl(dir.name, dir.control);
      setUpControl(dir.control, dir);
      dir.control.updateValueAndValidity({emitEvent: false});
    });
  }

  /**
   * @description
   * Method called when the 'reset' event is triggered on the form.
   * @param reset: void
   * @param reset: void
   */
  onReset(): void {
this.resetForm(); }

  /**
   * @description
   * Resets the form to an initial value and resets its submitted
   * status.
   * @param value The new value for the form.
   */
  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as {submitted: boolean}).submitted = false;
  }

  private _setUpdateStrategy() {
    if (this.options && this.options.updateOn != null) {
      this.form._updateOn = this.options.updateOn;
    }
  }

  /** @internal */
  _findContainer(path: string[]): FormGroup {
    path.pop();
    return path.length ? <FormGroup>this.form.get(path) : this.form;
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {OnDestroy, OnInit} from '@angular/core';

import {FormGroup} from '../model';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared
 * between the `NgModelGroup` and `FormGroupName` directives.
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance
   * after the inputs are set.
   * Registers the group with its parent group.
   * @param name The name of the group.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective !.addFormGroup(this);
  }

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {
    return this.formDirective !.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the
   * top-level directive.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if
   * present, otherwise null.
   */
  get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */
  _checkParentType(): void { this.resetForm(); }
strategy);

    $[Examples.formGroupName] $[Examples.ngModelGroup] $[Examples.ngModelGroup] License

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strategy):

    $[Examples.formGroupName] $[Examples.ngModelGroup] $[Examples.ngModelGroup] License

The following example shows how to combine controls together in a sub-group of the form:

    ```
    @example
    forms/ts/ngModelGroup/ng_model_group_example.ts
    ```

    Notes:
    - This directive can only be used as a child of `NgForm` (within `<form>` tags).
    - Use this directive to validate a sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
    - Provide a name for the sub-group and it will become the key for the sub-group in the form's full value.
    - If you need direct access, export the directive into the local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).

    `ngModelGroup` extends AbstractFormGroupDirective and implements OnInit, OnDestroy:

    ```
    @example
    forms/ts/ngModelGroup/ng_model_group_example.ts
    ```

    Notes:
    - This is just one extra run no matter how many `ngModel` have been changed.
    - This is a general problem when using `exportAs` for directives!

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    Strategy:
    - Use a regular form tag instead of the formGroup directive (template-driven strategy):

    ```
    ${Examples.formGroupName}
    ```

    Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

    ```
    ${Examples.ngModelGroup}
    ```

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    Notes:
    - This directive can only be used as a child of `NgForm` (within `<form>` tags).
    - Use this directive to validate a sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
    - Provide a name for the sub-group and it will become the key for the sub-group in the form's full value.
    - If you need direct access, export the directive into the local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).
binds it to a form control element. The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself with the form as a child control. This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it. It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[()]` syntax, the value in the UI always syncs back to the domain model in your class. To inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar='ngModel()'`). You then access the control using the directive's `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available in `AbstractControlDirective`. When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it's often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `ngForm` such as (`#f='ngForm'`). Use the variable where needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit. The following example shows controls using `ngModel` within a form:

### Using ngModel within a form

The following example shows controls using `ngModel` within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}">
</form>
</form>
```

To set the name attribute through options, the following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
    </my-person-control>
</form>
```

@see `RadioControlValueAccessor`
@see `SelectControlValueAccessor`

@usageNotes

### Using ngModel on a standalone control

The following examples show a simple standalone control using `ngModel`:

```html
<example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'>

```
standalone control

**standalone**: When set to true, the `ngModel` will not register itself with its parent form,

* and acts as if it's not in the form. Defaults to false.

* updateOn*: Defines the event upon which the form control value and validity update.

* Defaults to 'change'. Possible values: `change` | `submit`.

/ (Todo(issue/24571)): remove `innerHTML` !@Input(ngModelOptions)@options !: [name?: string, standalone?: boolean, updateOn?: FormHooks]

*/@description*

* Event emitter for producing the `ngModelChange` event after the view model updates.

* @Output(ngModelChange) update = new EventEmitter();

```typescript
this.control.updateValueAndValidity({emitEvent: false});
```

```typescript
this.viewModel)) {
  this._updateValue(this.model);
  this.viewModel = this.model;
}
```

```typescript
if (!this._isStandalone()) {
  this._updateValue(this.model);
  this.viewModel = this.model;
}
```

```typescript
this.control._updateOn = this.options.updateOn;
```

```typescript
this.formDirective.addControl(this.control, this);
```

```typescript
this._registered = true;
```

```typescript
this._isStandalone() ? this._setUpStandalone() :
```

```typescript
private _setUpStandalone(): void {
  setUpControl(this.control, this);
}
```

```typescript
private _isStandalone(): boolean {
  return !this._parent || !!(this.options && this.options.standalone);
}
```

```typescript
private _setUpdateStrategy(): void {
  if (this.options && this.options.updateOn != null) {
    this.formDirective.addControl(this.control, this);
    this._registered = true;
  }

  private _setUpStandalone(): void {
    setUpControl(this.control, this);
    this._registered = true;
  }
```

```typescript
private _checkName(): void {
  if (!this._isStandalone()) {
    this._checkName();
  }
```

```typescript
private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup)) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!(this._parent instanceof NgFormGroup)) {
    TemplateDrivenErrors.formGroupNameException();
  }
```

```typescript
private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkForErrors();
  }
```

```typescript
private _setUpControl(): void {
  this.viewModel = this.model;
  this.viewModel)) {
    this._updateValue(this.model);
    this.viewModel = this.model;
```

```typescript
private _updateDisabled(changes: SimpleChanges) {
  return !this._registered;
}
```

```typescript
private _updateValue(changes: SimpleChanges) {
  return !this._registered;
}
```

```typescript
private _updateValueAndValidity(changes) {
  return !this._registered && !!(this.options && this.options.updateOn);
}
```

```typescript
private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkForErrors();
  }
```

```typescript
private _setUpControl(): void {
  setUpControl(this.control, this);
    this._registered = true;
```
if (this.options && this.options.name) this.name = this.options.name;

if (!this._isStandalone() && !this.name) {
  TemplateDrivenErrors.missingNameException();
}

private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;
  const isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');

  resolvedPromise.then(() => {
    if (isDisabled && !this.control.disabled) {
      this.control.enable();
    } else if (!isDisabled && this.control.disabled) {
      this.control.disable();
    }
  });
}

export {ɵNgNoValidate as NgNoValidate};

export const NgModelWithFormControlWarning = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

export class FormControlDirective implements ControlValueAccessor, OnChanges, SimpleChanges, AsyncValidator, Validator, EventEmitter, forwardRef<any>(), NzInjectionToken {

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  import {Directive, EventEmitter, Inject, InjectionToken, Input, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
  import {FormControl} from '../../model';
  import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
  import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
  import {NgControl} from '../ng_control';
  import {ReactiveErrors} from '../reactive_errors';
  import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
  import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

  /**
   * @description
   * * Syncs a standalone `FormControl` instance to a form control element.
   * 
   * @see [Reactive Forms Guide](guide/reactive-forms)
   * @see `FormControl`
   * @see `AbstractControl`
   *
   * @usageNotes
   *
   * ### Registering a single form control
   * 
   * The following examples shows how to register a standalone control and set its value.
   *
   * ```ts
   * this.value = 'some value';
   * ```
   *
   * Now deprecated:
   *
   * ```html
   * <input [formControl]='control' [(ngModel)]='value'>
   * ```
   *
   * This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `NgModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates some of its behavior. Specifically, it allows getting/seting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - don't work, which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template. To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives. After (choice 1 - use reactive forms):
FormControlDirective extends NgControl implements OnChanges {

```ts
  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   */
  // TODO(issue/24571): remove `!`.  
  @Input('formControl') form !: FormControl;

  /**
   * @description
   * Triggers a warning that this input should not be used with reactive forms.
   */
  @Input('disabled')
  set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  // TODO(kara): remove next 4 properties once deprecation period is over
  /** @deprecated as of v6 */
  @Input('model') model: any;

  /** @deprecated as of v6 */
  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @description
   * Static property used to track whether any ngModel warnings have been sent across
   * all instances of FormControlDirective. Used to support warning config of "once".
   *
   * @internal
   */
  static _ngModelWarningSentOnce = false;

  /**
   * @description
   * Instance property used to track whether an ngModel warning has been sent out for this
   * particular `FormControlDirective` instance. Used to support warning config of "always".
   *
   * @internal
   */
  _ngModelWarningSent = false;

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[][],
              @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] { return []; }

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators
   * registered with this directive.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  /**
   * The `FormControl` bound to this directive.
   */
  get control(): FormControl { return this.form; }

  /**
   * Sets the new value for the view model and emits an `ngModelChange` event.
   */
  set newValue(newValue: any) {
    this.viewModel = newValue;
    this.valueAccessor!.setModel(newValue);
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  /**
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] { return []; }

  /**
   * Synchronous validator function composed of all the synchronous validators
   * registered with this directive.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  /**
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  /**
   * The `FormControl` bound to this directive.
   */
  get control(): FormControl { return this.form; }

  /**
   * Sets the new value for the view model and emits an `ngModelChange` event.
   */
  set newValue(newValue: any) {
    this.viewModel = newValue;
    this.valueAccessor!.setModel(newValue);
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  /**
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] { return []; }

  /**
   * Synchronous validator function composed of all the synchronous validators
   * registered with this directive.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  /**
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  /**
   * The `FormControl` bound to this directive.
   */
  get control(): FormControl { return this.form; }

  /**
   * Sets the new value for the view model and emits an `ngModelChange` event.
   */
  set newValue(newValue: any) {
    this.viewModel = newValue;
    this.valueAccessor!.setModel(newValue);
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }
```
viewToModelUpdate(newValue: any): void { this.viewModel = newValue; 
this.update.emit(newValue); }
  }
  private _isControlChanged(changes: {[key: string]: any}): boolean { return changes.hasOwnProperty('form'); }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../../validators';
import {ControlContainer} from '../control_container';
import {Form} from '../form_interface';
import {ReactiveErrors} from '../reactive_errors';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from '../shared';

import {FormControlName} from './form_control_name';
import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 *
 * This directive accepts an existing `FormGroup` instance. It will then use this
 * 'FormGroup' instance to match any child `FormControl`, `FormGroup`, and
 * `FormArray` instances to child `FormControlName`, `FormGroupName`, and `FormArrayName` directives.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 *
 * ## Register FormGroup
 *
 * The following example registers a `FormGroup` with first name and last name controls,
 * and listens for the *ngSubmit* event when the button is clicked.
 *
 * ```
 * @example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({
  selector: '[formGroup]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form,
OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  // TODO(issue/24571): remove '!'.
  private _oldForm !: FormGroup;

  /**
   * Tracks the list of added `FormControlName` instances
   */
  directives: FormControlName[] = [];

  /**
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null !;

  /**
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self()
      @Inject(NG_VALIDATORS) private _validators: any[],
      @Optional() @Self()
      @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[])
  {
    super();
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * Returns this directive's instance.
   */
  get formDirective(): Form { return this; }

  /**
   * Returns the `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return this.form; }

  /**
   * Returns an array representing the path to this group. Because this
   * directive always lives at the top level of a form, it always an empty array.
   */
  get path(): string[] { return []; }

  /**
   * Method that sets up the control directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of directives.
   */
  @param param dir The 'FormControlName'
  directive instance.
  @param addControl(dir: FormControlName): FormControl
  { const ctrl: any = this.form.get(dir.path); return setUpControl(ctrl, dir); }

  @param return the instance from the provided 'FormControlName'
  directive instance.
  @param getControl(dir: FormControlName): FormControl
  { return <FormControl>this.form.get(dir.path); }

  /**
   * Removes the 'FormControlName' instance from the internal list of directives
   */
  @param dir The 'FormControlName' directive instance.
  @param removeControl(dir: FormControlName):
void { removeDir<FormControlName>(this.directives, dir); }

/**
 * Adds a new `FormGroupName` directive instance to the form.

 * @param dir The `FormGroupName` directive instance.
 * @return `<FormGroup> this.form.get(dir.path);`.
 */

addFormGroup(dir: FormGroupName): void {
  const ctrl: any = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

/**
 * No-op method to remove the form group.

 * @param dir The `FormGroupName` directive instance.
 */

removeFormGroup(dir: FormGroupName): void {
  const ctrl: any = this.form.get(dir.path);
  if (dir.control !== ctrl) {
    cleanUpControl(dir.control, dir);
    if (newCtrl) setUpControl(newCtrl, dir);
    (dir as {control: FormControl}).control = newCtrl;
  }
}

/**
 * Sets the new value for the provided `FormGroupName` directive.

 * @param dir The `FormGroupName` directive instance.
 * @param value The new value for the directive's control.
 */

updateModel(dir: FormControlName, value: any): void {
  const ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}

/**
 * Method called with the "submit" event is triggered on the form.

 * @param $event The "submit" event object
 */

onSubmit($event: Event): boolean {
  (this as {submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}

/**
 * Resets the form to an initial value and resets its submitted status.

 * @param value The new value for the form.
 */

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}

private _updateRegistrations() {
  this.form._registerOnCollectionChange(() => this._updateDomValue());
  if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
  this._oldForm = this.form;
}

private _updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator, sync]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
}

private _checkFormPresent() {
  if (!this.form) {
    ReactiveErrors.missingFormException();
  }
}

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 FormGroup` to link, and

* looks for a `FormGroup` registered with that name in the parent's `FormGroup` instance you passed into `FormGroupDirective`. The following example uses the `FormGroupDirective` method to access the associated `FormGroup`.

* The following example uses the `FormGroupDirective` method to access `FormGroup` instances within the group using dot syntax. This example register a nested `FormGroup` within an existing `FormGroup`.

* and provides methods to retrieve the nested `FormGroup` and individual controls. The name corresponds to a key in the parent `FormGroup` or `FormArray`. Accepts a name as a string or a number. The name in the form of a string is useful for individual forms, while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormArray`.

* // TODO(issue/24571): remove '!'.

* The name in the form of a string is useful for individual forms, while the numerical form allows for form arrays to be bound to indices when iterating over arrays in a `FormArray`.

* The `FormArray` bound to this directive.

* A lifecycle method called when the directive's inputs are initialized. For internal use only.

* Throws if the directive does not have a valid parent.

* NgOnInit(): void

* NgOnDestroy(): void

* Gets control.
@description
* The top-level directive for this group if present, otherwise null.*

get formDirective(): FormGroupDirective|null {
  return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
}

get description(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}

get validators(): ValidatorFn[] {
  return composeValidators(this._validators);
}

get asyncValidators(): AsyncValidatorFn[] {
  return composeAsyncValidators(this._asyncValidators);
}

_checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * 
 * @see 
 * ```html
 * <input formControlName="first" 
 * [(ngModel)]="value">
 * ```
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form controls within a group and set their value.
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used,
 * but in fact it's an input/output property named `ngModel` on the reactive form directive that simply
 * approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value
 * events. However, some of `ngModel`'s other features - like `ngModelOptions` or exporting the directive - simply don't work.
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used,
 * but in fact it's an input/output property named `ngModel` on the reactive form directive that simply
 * approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value
 * events. However, some of `ngModel`'s other features - like `ngModelOptions` or exporting the directive - simply don't work.
 * Now deprecated.
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used,
---

---

---
any { return this._parent ? this._parent.formDirective : null; }\n
/**
   * @description
   * Synchronous validator function composed of all the synchronous validators
   * registered with this directive.\n
   * @return
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }\n
/**
   * @description
   * Async validator function composed of all the async validators registered with this
   * directive.\n
   * @return
   */
  get asyncValidator(): AsyncValidatorFn { return composeAsyncValidators(this._rawAsyncValidators); }\n
private _checkParentType(): void {\n    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) { ReactiveErrors.ngModelGroupException(); }\n    else if (!\n        !(this._parent instanceof FormGroupName) && !(this._parent instanceof FormArrayName)) { ReactiveErrors.controlParentException(); }\n    this._setUpControl();\n}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {Observable} from 'rxjs';

import {AbstractControl} from '../model';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * @description
 * Defines the map of errors returned from failed validation checks.\n
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes

 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a
 * validator directive with a custom error key.\n
 * @publicApi
 */
export interface Validator {
  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * @description
   *
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function

   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * @description
 * An interface implemented by classes

 * @usageNotes
 *
 * ### Provide a custom async validator
 *
 * The following example implements the `AsyncValidator` interface to create an
 * async validator directive with a custom error key.\n
 * @publicApi
 */
export interface AsyncValidator extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A promise or observable that

   * resolves a map of validation errors
   * if validation fails, otherwise null.
   */
  validate(control: AbstractControl): Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n
 * @export
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n
 * @export
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n
 * @export
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};
```typescript
@Directive({
  selector: ':not([type=checkbox])[required][FormControlName],:not([type=checkbox])[required][formControl]:not([type=checkbox])[required][ngModel],
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  /**
   * @description
   * Tracks changes to the required attribute bound to this directive.
   */
  @Input()
  required?: boolean = true;

  /**
   * @description
   * Method that validates whether the control is empty.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.required ? Validators.required(control) : null;
  }...
}
```

```typescript
/**
 * A Directive that adds the `required` validator to checkbox controls marked with the
 * `required` attribute.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 * 
 * ### Adding a required checkbox validator using template-driven forms
 *
 * ```
 * <input type="checkbox" name="active" ngModel required>
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: 'input[type=checkbox][required][FormControlName],input[type=checkbox][required][formControl],input[type=checkbox][required][ngModel],
  providers: [CHECKBOX_REQUIRED_VALIDATOR]
})
export class CheckboxRequiredValidator extends RequiredValidator {
  /**
   * @description
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.required ? Validators.requiredTrue(control) : null;
  }...
}
```

```typescript
/**
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 */
export interface ValidatorFn {
  (control: AbstractControl): ValidationErrors | null;
}
```

```typescript
/**
 * A directive that adds the `email` validator to controls marked with the
 * `email` attribute.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 * 
 * ### Adding an email validator
 *
 * The following example shows how to add an email validator to an input attached to an ngModel binding.
 * ```
 * <input type="email" name="email" ngModel>
 * <input type="email" name="email" ngModel="true">
 * <input type="email" name="email" ngModel="true" [email]="true">
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: '[email][FormControlName],[email][formControl],[email][ngModel],
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  email?: string;...
}
```

```typescript
/**
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 */
export interface ValidatorFn {
  (control: AbstractControl): ValidationErrors | null;
}
```

```typescript
/**
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 */
export interface ValidatorFn {
  (control: AbstractControl): ValidationErrors | null;
}
```

```typescript
/**
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 */
export interface ValidatorFn {
  (control: AbstractControl): ValidationErrors | null;
}
```
/**
 * @description
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which
 * adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 * The following example shows how to add a minimum length validator to an input attached
to an `html` `ngModel` binding.
 * * `<input name="firstName" ngModel minlength="4">`
 * </p>
 */
@Directive({
  selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',
  host: {'[attr.minlength]': 'minlength ? minlength : null'}
}) export class MinLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the minimum length bound to this directive.
   */
  @Input() minlength !: string | number;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value meets a minimum length
   * requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ?
        this.minlength : parseInt(this.minlength, 10));
  }
}

/**
 * @description
 * Provider which
 * adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 * The following example shows how to add a maximum length validator to an input attached
to an `html` `ngModel` binding.
 * * `<input name="firstName" ngModel maxlength="25">`
 * </p>
 */
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
}) export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the maximum length bound to this directive.
   */
  @Input() maxlength !: string | number;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value exceeds the maximum length
   * requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ?
        this._validator(control) : null;
  }
}

export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true
};
validator inputs change.

```typescript
  validate(control: AbstractControl): ValidationErrors | null {
    return this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  // TODO(issue/24571): remove '!'.
  _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }

  // TODO(issue/24571): remove '!'.
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  // TODO(issue/24571): remove '!'.
  _createValidator(): void {
    this._validator = Validators.maxLength(
      typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
```

The following example shows how to add a pattern validator to an input attached to an `ngModel` binding.

```html
  <input name="firstName" ngModel pattern="^[a-zA-Z ]*$">
</html>
```

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'./directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
  NgControlStatusGroup,
  RequiredValidator,
  MinLengthValidator,
  MaxLengthValidator,
  PatternValidator,
  CheckboxRequiredValidator,
  EmailValidator,
  TemplateDrivenDirectives: Type<any>[] = [NgModel, NgForm],
  ReactiveDrivenDirectives: Type<any>[] = [FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous validator function, or an array of validator functions
   * * `updateOn`: The event upon which the control should be updated (options: ‘change’ | ‘blur’ | ‘submit’)
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of async validator functions
   * * `controlsConfig`: A collection of child controls. The key for each child is the name
   */
  group(controlsConfig: {[key: string]: any}, options: AbstractControlOptions | {[key: string]: any}) { return new FormGroup(controlsConfig, options); }
}
asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;
else { // ‘options’ are legacy form group
validators = options['validator'] !== null ? options['validator'] : null;
asyncValidators = options['asyncValidator'] !== null ? options['asyncValidator'] : null;
}

return FormGroup({controls, (asyncValidators, updateOn, validators)):
/** * @description * Construct a new ‘FormControl’ with the given state, validators and options.

* @param formState Initializes the control with an initial state value, or an object that contains both a value and a disabled status.

* @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.

* Initialize a control as disabled

* The following example returns a control with an initial value in a disabled state.

* @code-example path="forms/ts/form_builder.form_builder_example.ts" region="disable-control">

* @endcode-example

*/

return new FormControl(formState, validatorOrOpts, asyncValidator);

/** * Constructs a new `FormArray` from the given array of configurations, validators and options.

* @param controlsConfig An array of child controls or control configs. Each child control is given an index when it is registered.

* @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.

* @param asyncValidator A single async validator or array of async validators.

*/

function controlsConfig: any[], validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn[]: FormArray {
    return new FormArray(controlsConfig.map(c =>
        this._createControl(c)));
}

/** * @internal */

function _reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {
    const controls: {[key: string]: AbstractControl} = {};
    Object.keys(controlsConfig).forEach(controlName => {
        controls[controlName] = this._createControl(controlsConfig[controlName]);
    });
    return controls;
}

/** * @internal */

function _createControl(controlConfig: any): AbstractControl {
    if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup ||
        controlConfig instanceof FormArray) {
        return controlConfig;

    } else if (Array.isArray(controlConfig)) {
        const value = controlConfig[0];
        const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;
        return this.control(value, validator, asyncValidator);

    } else {
        return this.control(controlConfig);
    }
}

/*
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Version} from '@angular/core';

/** *
 * @publicApi *
 */
export const VERSION = new Version('9.0.7');

/** *
 * Entry point for all public APIs of the common package.
 */

import {ModuleWithProviders, NgModule} from '@angular/core';

import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';
import {RadioControlRegistry} from './directives/radio_control_value_accessor';
import {FormBuilder} from './form_builder';

/** *
 * Exports the required infrastructure and directives for reactive forms, making them available for import by NgModules that import this
 */
@ NgModule({
  declarations: TEMPLATE_DRIVEN_DIRECTIVES,
  providers: [InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING,
    REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES] from './directives';
  imports: [RadioControlRegistry] from './directives/radio_control_value_accessor';
  providers: [FormBuilder] from './form_builder';
  exports: [InternalFormsSharedModule,
    TEMPLATE_DRIVEN_DIRECTIVES] from './directives';
  declarations: [FormsModule from 'angular/forms'];
  exports: [InternalFormsSharedModule,
    TEMPLATE_DRIVEN_DIRECTIVES] from './directives';
})
export class FormsModule {
}

/** *
 * Exports the required infrastructure and directives for reactive forms, making them available for import by NgModules that import this
 */
@ NgModule({
  declarations: [FormsModule],
  providers: [FormsModule]
})
export class SharedModule {
}
module.

```typescript
/**
 * @description
 * Provides options for configuring the reactive forms module.
 */

@publicApi

```
TypeScript language service and during build for verification.

```
// ngc

export * from './public_api';

export { InternalFormsSharedModule as InternalFormsSharedForms директив } from './src/directives';

export { CHECKBOX_VALUE_ACCESSOR as CheckboxValueAccessor, RADIO_VALUE_ACCESSOR as RadioValueAccessor, NUMBER_VALUE_ACCESSOR as NumberValueAccessor, RANGE_VALUE_ACCESSOR as RangeValueAccessor, NgNoValidate as NgNoValidateDirective, modelGroupProvider as ModelGroupProvider, modelControlStatus as ModelControlStatus, formDirectiveProvider as FormDirectiveProvider, reactiveDirectives as ReactiveDirectives, debounceTime as DebounceTime, delay as Delay, debounce as Debounce, FormControlName as FormControlName, FormControl as FormControl, ControlValueAccessor as ControlValueAccessor, AbstractControl as AbstractControl, formControlBinding as FormControlBinding, formGroupBinding as FormGroupBinding, formArrayBinding as FormArrayBinding, ngModel as NgModel, ngModelGroup as NgModelGroup, NgSelectMultiple as NgSelectMultiple, NgSelectMultipleOption as NgSelectMultipleOption, EMAIL_VALIDATOR as EmailValidator, MAX_LENGTH_VALIDATOR as MaxLengthValidator, MIN_LENGTH_VALIDATOR as MinLengthValidator, PATTERN_VALIDATOR as PatternValidator, REQUIRED_VALIDATOR as RequiredValidator, CHECKBOX_REQUIRED_VALIDATOR as CheckboxRequiredValidator, CONTROL_VALUE_ACCESSOR as ControlValueAccessor, AbstractControlStatus as AbstractControlStatus } from './src/directives/validators';
```
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js.map

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

function() {
    var __assign = Object.assign || function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (p !== 'default') t[p] = s[p];
        }
        return t;
    }
    var _assign = __assign.apply(this, arguments);
    function __rest(s, e) {
        var t = {}; for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
        if (e) for (var p in e) if (Object.prototype.hasOwnProperty.call(e, p)) t[p] = e[p];
        return t;
    }
    _assign.s = arguments[1];
    for (var p in _assign) if (p !== 'length') __assign.call(this, _assign, arguments);
    return _assign.apply(this, arguments);
}
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```typescript
@description
* Registers a function called when the control value changes. *
*
* @param fn The
```
```
```
```
```typescript
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
```
```typescript
function CheckboxControlValueAccessor(_renderer, _elementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;
    /**
     * @description
     * The registered callback function called when a change event occurs on the input element.
     *
     * ```
     * this.onChange = function (_) { };
     * ```
     *
     * @usageNotes
     *
     * ### Using a checkbox with a reactive form.
     *
     * The following example shows how to use a checkbox with a reactive form.
     *
     * ```ts
     * const
     * ```
     ```typescript
    };
    /**
     * Sets the 'checked' property on the input element.
     *
     * ```
     * @param value
     * ```
     ```typescript
    };
    /**
     * @description
     * The registered callback function called when a blur event occurs on the input element.
     *
     * ```
     * this.onTouched = function () { };
     * ```
     ```typescript
    };
    /**
     * @description
     * The
     ```
callback function

CheckboxControlValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = fn; 
};//

/**
 * @description
 * Registers a function called when the control is touched.
 */
/*
 * @param fn The callback function
 */
CheckboxControlValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn; 
};//

/**
 * @description
 * Sets the 'disabled' property on the input element.
 */
/*
 * @param isDisabled The disabled value
 */
CheckboxControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

CheckboxControlValueAccessor = __decorate([
    core.Directive({
        selector:
            'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
        host: { 'change': 'onChange($event.target.checked)', 'blur': 'onTouched()' },
        providers:
            [CHECKBOX_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2,
        core.ElementRef]
    )], CheckboxControlValueAccessor);

//

/**
 * @license
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

DEFAULT_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting:
        core.forwardRef(function () { return DefaultValueAccessor; }),
    multi: true
}

* @description
 * Provide this token to control if form directives buffer IME input until
 * the "compositionend" event occurs.
 */
/*
 * @publicApi
 * @var
 * var COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');
 */

COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');

@description
* The default `ControlValueAccessor` for writing a value and listening to changes on input
* elements. The accessor is used by the 'FormControlDirective', 'FormControlName', and
* 'NgModel' directives.

* @usageNotes
*
* ### Using the default value accessor
*
* The following example shows how to use an input
* element that activates the default value accessor
* (in this case, a text field).

* @const
* const firstNameControl = new FormControl();

* @publicApi
* @value
* varexo = new FormBuilder();

* @publicApi
* @value
* var DefaultModel = @new @class @/function () {

* @param
* var fn The callback function

* @description
* Registers a function called when the control value changes.

* @param fn The callback function

* @description
* Registers a function called when the control is touched.

* @param isDisabled The disabled value

* @description
* Sets the 'disabled' property on the input element.

* @param isDisabled The disabled value

defaultValueAccessor.prototype._handleInput = function (value) {
    if (!this._compositionMode && !this._composing) {
        this.onChange(value);
    }
}
/** @internal */
defaultValueAccessor.prototype._compositionStart = function () {
    this._composing = true;
};
/** @internal */
defaultValueAccessor.prototype._compositionEnd = function (value) {
    this._composing = false;
    this._compositionMode && this.onChange(value);
};

defaultValueAccessor = __decorate([], core.Directive((
    selector:
    'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl]
    ,textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl],
    // TODO: vsavkin replace the above selector with the one below it once
    // https://github.com/angular/angular/issues/3011 is implemented
    // selector:
    '[ngModel],[formControl],[formControlName]',
    host: {
        '(input)': '$any(this)._handleInput($event.target.value)',
        '(blur)': 'onTouched()',
        '(compositionstart)': 'onTouched()'
    },
    providers: [
        DEFAULT_VALUE_ACCESSOR
    ],
    __param(2, core.Optional()), __param(2,
    core.Inject(COMPOSITION_BUFFER_MODE)),
    __metadata("design:paramtypes", [core.Renderer2,
    core.ElementRef, Boolean])
),
return DefaultValueAccessor);
Reports error data for the control with the given path:

```javascript
AbstractControlDirective.prototype.getError = function (errorCode, path) {
    return this.control
        ? this.control.getError(errorCode, path)
        : null
};
```

- **@param** `errorCode` The code of the error to check
- **@param** `path` A list of control names that designates how to move from the current control to the control that should be queried for errors.

For example, for the following `FormGroup`:

```javascript
form = new FormGroup({'street': new FormControl()});
```

The path to the 'street' control from the root form would be 'address' -> 'street'. It can be provided to this method in one of two formats:

1. An array of string control names, e.g. `['address', 'street']`.
2. A period-delimited list of control names in one string, e.g. `'address.street'`.

- **@returns** error data for that particular error. If the control or error is not present, `null` is returned.

```
AbstractControlDirective.prototype.getError = function (errorCode, path) {
    return this.control
        ? this.control.getError(errorCode, path)
        : null
};
```

- **@param** `errorCode` The code of the error to check
- **@param** `path` A list of control names that designates how to move from the current control to the control that should be queried for errors.
```typescript
/**
 * @publicApi
 */
var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');
*/

```
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### Validators.maxLength

Validator that requires the length of the control’s value to be less than or equal to the provided maximum length. This validator is also provided by default if you use the HTML5 `maxlength` attribute.

```typescript
const control = new FormControl('', Validators.maxLength(3));
```

#### Test

Tests the value using a regular expression

```typescript
const control = new FormControl('Angular', Validators.maxLength(10));
```

#### Console Log

```typescript
console.log(control.errors); // {maxlength: {requiredLength: 3, actualLength: 5}}
```

#### Usage Notes

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disable the whole address to be longer than 254 characters.

### Validators.minLength

Validator that requires the length of the control’s value to be greater than or equal to the provided minimum length. This validator is also provided by default if you use the HTML5 `minlength` attribute.

```typescript
const control = new FormControl('', Validators.minLength(3));
```

#### Test

Tests the value using a regular expression

```typescript
const control = new FormControl('Angular', Validators.minLength(10));
```

#### Console Log

```typescript
console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 5}}
```

#### Usage Notes

- Disallow 'local-part' (the part before the '@' symbol) to begin or end with a period (`.`).
- Disallow 'local-part' to be longer than 64 characters.
- Disable the whole address to be longer than 254 characters.

### Validators.email

Validator that requires the control’s value pass an email validation test.

```typescript
const control = new FormControl('', Validators.email);
```

#### Test

Tests the value using a regular expression

```typescript
const control = new FormControl('bad@', Validators.email);
```

#### Console Log

```typescript
console.log(control.errors); // {email: true}
```

#### Usage Notes

- If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.
- Disallow 'local-part' (the part before the '@' symbol) to begin or end with a period (`.`).
- Disallow 'local-part' to be longer than 64 characters.
- Disable the whole address to be longer than 254 characters.

### Validators.required

Validator that requires the control's value be true. This validator is commonly used for required checkboxes.

```typescript
const control = new FormControl('', Validators.required);
```

#### Test

Tests the value using a `true` boolean

```typescript
const control = new FormControl('', Validators.required);
```

#### Console Log

```typescript
console.log(control.errors); // {required: true}
```

#### Usage Notes

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disable the whole address to be longer than 254 characters.

### Validators.requiredTrue

Validator that requires the control’s value pass an email validation test.

```typescript
const control = new FormControl('', Validators.requiredTrue);
```

#### Test

Tests the value using a `true` boolean

```typescript
const control = new FormControl('', Validators.requiredTrue);
```

#### Console Log

```typescript
console.log(control.errors); // {required: true}
```

#### Usage Notes

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disable the whole address to be longer than 254 characters.
check fails, otherwise `null`. * `\n * `@see `updateValueAndValidity()` `\n * `\n
Validators.maxLength = function (maxLength) { `\n * `return function (control) { `\n * `\n * `var length = `\n * `control.value ? control.value.length : 0; `\n * `return length > maxLength ? `\n * `{ `\n * `requiredLength: maxLength, `\n * `actualLength: length } `\n * `: `\n * `null; `\n * `}; `\n * `}; `\n * `\n * `*/`\n * `@description` `\n * `Validator that requires the control's value to match a regex pattern. This validator is also
 * `provided by default if you use the HTML5 `pattern` attribute. `\n * `* `@see `updateValueAndValidity()` `\n * `* `\n
Validators.nullValidator; `\n * `return Validators.pattern = function (pattern) { `\n * `if (!pattern) return 
 * `var regex; `\n * `var regexStr; `\n * `if (typeof pattern === 'string') { `\n * `regexStr = "; `\n * `if (pattern.charAt(0) === '\^') regexStr += '\^'; `\n * `regexStr += '\$'; `\n * `regex = new RegExp(regexStr); `\n * `} else { `\n * `regex = pattern.toString(); `\n * `} `\n * `return function (control) { `\n * `if (isEmptyInputValue(control.value)) { `\n * `return null; // don't validate empty values to allow optional controls
 * `} `\n * `var value = `\n * `control.value; `\n * `var regex = new RegExp(pattern); `\n * `return function (control) { `\n * `var errors = []; `\n * `if (control.errors) `\n * `return errors; `\n * `else `\n * `for (var property in control.errors) `\n * `if (control.errors.hasOwnProperty(property)) `\n * `errors.push(control.errors[property]); `\n * `} `\n * `}); `\n * `\n * `@description` `\n * `Compose multiple async validators into a single function that returns the union
 * `of the individual error objects for the provided control. `\n * `* `@returns A validator function that returns an
 * `error map with the
 * `* `property if the validation check fails, otherwise `null`. `\n * `* `@see `updateValueAndValidity()` `\n * `* `\n
Validators.nullValidator; `\n * `return Validators.filter(isPresent); `\n * `if (presentValidators.length == 0) return null; `\n * `return
 * `function (control) { `\n * `var observables = _executeAsyncValidators(control, presentValidators).map(toObservable); `\n * `return rxjs.forkJoin(observables).pipe(operators.map(_mergeErrors));`\n * `}); `\n * `\n * `@description` `\n * `Use of this source code is governed by an MIT-style license that can be
 * `found in the LICENSE file at https://angular.io/license
 * `* `
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```javascript
(function (c) { return validator.validate(c); })
```

```javascript
var NUMBER_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return NumberValueAccessor; }),
    multi: true
}
```

```javascript
var RADIO_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RadioControlValueAccessor; }),
    multi: true
}
```

```javascript
var RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }
    RadioControlRegistry.prototype.add = function (control, accessor) {
        this._accessors.push([control, accessor]);
    }
    RadioControlRegistry.prototype.remove = function (accessor) {
        for (var i = this._accessors.length - 1; i >= 0; --i) {
            if (this._accessors[i][1] === accessor) {
                this._accessors.splice(i, 1);
                return;
            }
        }
    }
    return RadioControlRegistry;
}());

var RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }
    RadioControlRegistry.prototype.add = function (control, accessor) {
        this._accessors.push([control, accessor]);
    }
    RadioControlRegistry.prototype.remove = function (accessor) {
        for (var i = this._accessors.length - 1; i >= 0; --i) {
            if (this._accessors[i][1] === accessor) {
                this._accessors.splice(i, 1);
                return;
            }
        }
    }
    return RadioControlRegistry;
}());
```
RadioControlRegistry.prototype.select = function (accessor) {
            var _this = this;
            this._accessors.forEach(function (c) {
                if (_this._isSameGroup(c, accessor) && c[1] !== accessor) {
                    c[1].fireUncheck(accessor.value);
                }
            });
        };

        RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
            if (!controlPair[0].control)
                return false;
            return controlPair[0]._parent === accessor._control._parent &&
                controlPair[1].name === accessor.name;
        };

        RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);
        return RadioControlRegistry;
    }();

    /**
     * @description
     * The `ControlValueAccessor` for writing radio control values and listening to radio control
     * changes. The value accessor is used by the `FormDirective`, `FormControlName`, and
     * `NgModel` directives.
     *
     * @usageNotes
     *
     * ### Using radio buttons with reactive form directives
     *
     * The follow example shows how to use radio buttons in a reactive form. When using radio buttons in
     * a reactive form, radio buttons in the same group should have the same `formControlName`.
     * Providing a `name` attribute is optional.
     *
     * `{example
     * forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'}
     *
     * @ngModule
     * ReactiveFormsModule
     * @ngModule FormsModule
     * @publicApi
     */
    var RadioControlValueAccessor = /** @class */ (function () {
        function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
            this._renderer = _renderer;
            this._elementRef = _elementRef;
            this._registry = _registry;
            this._injector = _injector;
            this.onChange = function () { };
            this.onTouched = function () { };
        }
        /**
         * @description
         * A lifecycle method called when the directive is initialized. For internal
         * use only.
         */
        RadioControlValueAccessor.prototype.ngOnInit = function () {
            this._control = this._injector.get(NgControl);
            this._checkName();
            this._registry.add(this._control, this);
        };

        /**
         * @description
         * Lifecycle method called before the directive's instance is destroyed. For internal
         * use only.
         */
        RadioControlValueAccessor.prototype.ngOnDestroy = function () {
            this._registry.remove(this);
        };

        /**
         * @description
         * Registers a function called when the control value changes.
         *
         * @param fn The
         */
        RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
            var _this = this;
            this._fn = fn;
            this.onChange = function () {
                fn(_this.value);
                _this._registry.select(_this);
            };
        };

        /**
         * Sets the "disabled" property on the input element.
         *
         * @param isDisabled The disabled value
         */
        RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

        RadioControlValueAccessor.prototype._checkName = function () {
            if (this.name &&
                this.formControlName && this.name !== this.formControlName) {
                this._throwNameError();
            }
            if (!this.name && this.formControlName)
                this.name = this.formControlName;
        };

        RadioControlValueAccessor.prototype._throwNameError = function () {
            throw new Error("If you define both a name and a formControlName attribute on your radio button, their values
            must match. Ex: <input

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In your class:

```javascript
this.myGroup = new FormGroup({
  person: new FormControl
});
```

```javascript
this.cityArray = new FormArray([new FormControl('SF')]);
this.myGroup = new FormGroup({
  cities: this.cityArray
});
```

```typescript
ngModelGroup: '<form>
    <div ngModelGroup=\"person\">\n      <input [(ngModel)]=\"person.name\" name=\"firstName\">\n    </div>
</form>',
ngModelWithFormGroup: '<div 
formControlName=\"firstName\">\n  <input 
[(ngModel)]=\"showMoreControls\" [ngModelOptions]=\"{standalone: true}\">\n</div>

```
```ts
function _extractId(valueString) {
    return valueString.split(':')[0];
}
/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 */
const _extractId = function _extractId(valueString) {
    return valueString.split(':')[0];
};
/**
 * @description
 * The registered callback function called when a change event occurs on the
 * input element.
 */
const this.onChange = function (_) { };
/**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */
const this.onTouched = function () { };
/**
 * @description
 * Tracks the option comparison algorithm for tracking identities when
 * checking for changes.
 */
const this.compareWith = function (fn) {
    if (typeof fn !== 'function') {
        throw new Error("compareWith must be a function, but received " + JSON.stringify(fn));
    }
    this._compareWith = fn;
}
/**
 * @description
 * Registers a function called when the control value
 * changes.
 */
const this.registerOnChange = function (fn) {
    this.onChange = function (valueString) {
        this.value = this._getOptionValue(valueString);
        fn(this.value);
    };
}
/**
 * @description
 * Registers a function called when the
 * control is touched.
 */
const this.registerOnTouched = function (fn) { this.onTouched = fn; };

```
Sets the `disabled` property on the select input element. *
*param isDisabled The disabled value *
*type SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {

this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); 
}

/** @internal *
SelectControlValueAccessor.prototype._registerOption = function () { return (this._idCounter++).toString(); };

/** @internal *
SelectControlValueAccessor.prototype._getOptionId = function (valueString) {

var id = _extractId(valueString);
return id;
}

/** @internal */
SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {

var value = _extractValueString(id, valueString);
return this._optionMap.has(id) ?
this._optionMap.get(id) : valueString;
}

/**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding, ngValue supports binding to objects.
 */
set: function (value) {

this._renderer.setProperty(this._element.nativeElement, 'value', value);
if (this._select)
this._select.writeValue(this._select.value);
}

/**
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
ngOnDestroy: function () {

if (this._select) {
this._select.writeValue(this._select.value);
this._select._optionMap.delete(id);
}

this._renderer.setElementProperty(this.element.nativeElement, 'value', valueString);
}

*/

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@description
* Registers a function called when the control is touched.
*
* @param fn The callback function
*
* @param isDisabled The disabled value
*
SelectMultipleControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionId = function (valueString) {
    var id = _extractId$1(valueString);
    return this._optionMap.has(id) ? id : null;
};
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionValue = function (valueString) {
    var value = this._optionMap.get(id) ? this._optionMap.get(id)._value : valueString;
    return value;
};
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
NgSelectMultipleOption = /** @class */ (function () {
    function NgSelectMultipleOption(_element, _renderer, _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select) {
            this.id = this._select._registerOption(this);
        }
    }
    Object.defineProperty(NgSelectMultipleOption.prototype, "ngValue", {
        /**
         * @description
         * Tracks the value bound to the option element. Unlike the value binding,
         * ngValue supports binding to objects.
         */
        set: function (value) {
            if (this._select == null) {
                return;
            }
            this._value = value;
            this._setElementValue(_buildValueString$1(this.id, value));
            this._select.writeValue(this._select.value);
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(NgSelectMultipleOption.prototype, "value", {
        /**
         * Tracks simple string values bound to the option element.
         * For objects, use the `ngValue` input binding.
         */
        set: function (value) {
            if (this._select) {
                this._value = value;
                this._setElementValue(_buildValueString$1(this.id, value));
                this._select.writeValue(this._select.value);
            } else {
                this._setElementValue(this._select.value);
            }
        },
        enumerable: true,
        configurable: true
    });
    NgSelectMultipleOption.prototype._setSelected = function (selected) {
        this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
    };
    NgSelectMultipleOption.prototype.ngOnDestroy = function () {
        if (this._select) {
            this._select._optionMap.delete(this.id);
            this._select.writeValue(this._select.value);
        }
    };
    return NgSelectMultipleOption;
}());

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__decorate__(
    [core.Input('ngValue'),
     __metadata("design:type", Object),
     __metadata("design:paramtypes", [Object])
    ], NgSelectMultipleOption.prototype, "ngValue", null);
__decorate__(
    [core.Input('value'),
     __metadata("design:type", Object),
     __metadata("design:paramtypes", [Object])
    ], NgSelectMultipleOption.prototype, "value", null);
NgSelectMultipleOption = __decorate(
    [core.Directive({ selector: 'option' }),
     __param(2, core.Optional()), __param(2, core.Host()),
     __metadata("design:paramtypes", [core.ElementRef,
     core.Renderer2, core.SelectMultipleControlValueAccessor])
    ], NgSelectMultipleOption);
    return NgSelectMultipleOption;

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at
     * https://angular.io/license
     */
    function controlPath(name, parent) {
        return __spread(parent.path,
        [name]);
    }
    function setUpControl(control, dir) {
        if (!control)
            _throwError(dir, 'Cannot find
control with');
        if (!dir.valueAccessor)
            _throwError(dir, 'No value accessor for form control with');
        control.validator = Validators.compose(
        [control.validator, dir.validator]);
        control.asyncValidator = Validators.composeAsync(
        [control.asyncValidator, dir.asyncValidator]);
        dir.valueAccessor.writeValue(control.value);
        setUpViewChangePipeline(control, dir);
        setUpModelChangePipeline(control, dir);
        setUpBlurPipeline(control, dir);
        if (dir.valueAccessor.setDisabledState) {
            control.registerOnDisabledChange(function (isDisabled) {
                dir.valueAccessor.setDisabledState(isDisabled); });
        }
        // re-run validation when validator binding
        changes, e.g. minlength=3 -> minlength=4
        dir._rawValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange) {
                validator.registerOnValidatorChange(null);
            }
        });
        dir._rawAsyncValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange) {
                validator.registerOnValidatorChange(null);
            }
        });
        if (control)
            control._clearChangeFns();
    }
    function setUpModelChangePipeline(control, dir) {
        dir.valueAccessor.registerOnChange(function (newValue, emitModelEvent) {
            // control -> view
            dir.valueAccessor.writeValue(newValue);
            // control -> ngModel
            if (emitModelEvent)
                dir.viewToModelUpdate(newValue);
        });
    }
    function setUpFormContainer(control, dir) {
        if (control == null)
            _throwError(dir, 'Cannot find control
with');
        control.validator = Validators.compose([control.validator, dir.validator]);
        control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
        if (emitModelEvent) {
            control.registerOnModelUpdate(newValue);
        }
        control.setValue(control._pendingValue, [ emitModelToViewChange: false ]); dir
        dir.viewToModelUpdate(newValue);
        if (emitModelEvent) {
            dir.viewToModelUpdate(newValue);
        }
        dir.valueAccessor.writeValue(newValue);
        // control -> ngModel
        if (emitModelEvent) {
            dir.valueAccessor.writeValue(newValue);
        }
        if (emitModelEvent) {
            dir.valueAccessor.writeValue(newValue);
        }
        if (emitModelEvent) {
            dir.valueAccessor.writeValue(newValue);
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            dir.valueAccessor.writeValue(newValue);
        }
        if (emitModelEvent) {
            dir.valueAccessor.writeValue(newValue);
        }
        if (emitModelEvent) {
            dir.valueAccessor.writeValue(newValue);
        }
        if (emitModelEvent) {
**AbstractControl**

The base class for `FormControl`, `FormGroup`, and `FormArray`. It provides some of the shared behavior that all controls and groups of controls have, like running validators, calculating status, and resetting state. It also defines the properties that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be instantiated directly.

- `status`:
  - `DISABLED`:
  - `PENDING`:
  - `INVALID`:
  - `VALID`:

- `parent`:
  - `value`:
  - `valid`:
  - `dirty`:

- `validator`:
  - The function that determines the synchronous validity of this control.

- `asyncValidator`:
  - The function that determines the asynchronous validity of this control.

- `touched`:
  - True if the user has marked this control as `touched`.

- `pristine`:
  - True if the user has not yet changed the value in the UI.

- `dirty`:
  - True if the user has not yet changed the value in the UI.

- `invalid`:
  - True if this control has failed one or more of its validation tests.

- `invalid`:
  - True if this control has failed one or more of its validation tests.

- `pending`:
  - True if this control is in the process of conducting a validation check.

- `disabled`:
  - True if this control is marked as `disabled`.

- `controlToFind`:
  - `controlToFind = controlToFind.at(name)`

- `composeValidators()`:
  - `composeValidators(validatorOrOpts)`

- `composeAsyncValidators()`:
  - `composeAsyncValidators(validatorOrOpts)`

- `isOptionsObj()`:
  - `isOptionsObj(validatorOrOpts)`

- `coerceToValidator()`:
  - `coerceToValidator(validatorOrOpts)`

- `coerceToAsyncValidator()`:
  - `coerceToAsyncValidator(validatorOrOpts)`

- `null`:
  - `null;`
A control is `dirty` if the user has changed the value.

* in the UI.

* @returns True if the user has changed the value of this control in the UI; compare `pristine`.

* Programmatic changes to a control's value do not mark it dirty.

* get: function () { return !this.pristine; }

* enumerable: true;

* configurable: true;

* A control is `untouched` if the user has not yet triggered a `blur` event on it.

* A control is `dirty` if the user has not yet triggered the event on which the control updates itself.

* Possible values: "change" | "blur" | "submit".

* Default value: "change".

* get: function () { return this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change'); }

* enumerable: true;

* configurable: true;

* Sets the synchronous validators that are active on this control.

* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* Empty contents the sync validator list.

* * When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* Marks the control as `touched`. A control is touched by focus and `blur` events that do not change the value.

* `markAsUntouched();` * @see `markAsUntouched()`

* `markAsDirty();` * @see `markAsDirty()`

* `markAsPristine();` * @param opts Configuration options that determine how the control propagates changes

* and emits events after marking is applied.

* `onlySelf`: When true, mark only this control.

* When false or not supplied, marks all direct ancestors. Default is false.

* Marks the control and all its descendant controls as `touched`.

* Marks the control as `touched`. A control is touched by focus and `blur` events that do not change the value.

* `markAsUntouched();` * @see `markAsUntouched()`

* `markAsDirty();` * @see `markAsDirty()`

* `markAsPristine();` * @param opts Configuration options that determine how the control propagates changes

* and emits events after marking is applied.

* `onlySelf`: When true, mark only this control.

* When false or not supplied, marks all direct ancestors. Default is false.
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### AbstractControl

#### AbstractControl.prototype.enable = function (opts)

Sets configuration options determine how the control propagates changes and emits events when the control is enabled. When false, no events are emitted.

- `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled. When false, no events are emitted.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied, update all direct ancestors. Default is false.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

### AbstractControl.prototype.setErrors = function (errors, opts)

Sets errors on a form control when running validations manually, rather than automatically.

#### AbstractControl.prototype._runAsyncValidator = function ()

Recalculates the value and validation status of the control.

- `parent`: Sets the parent of the control.

- `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

#### AbstractControl.prototype._updateTreeValidity = function (opts)

Recalculates the value and validation status of the control.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

### AbstractControl.prototype.updateValueAndValidity = function (opts)

Recalculates the value and validation status of the control.

- `parent`: Sets the parent of the control.

- `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

### AbstractControl.prototype._setInitialStatus = function ()

Recalculates the value and validation status of the control.

- `parent`: Sets the parent of the control.

- `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

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- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

- `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.
```javascript
AbstractControl.prototype._updateTouched = function (opts) {
    if (opts === void 0) { opts = {}; }
    this._parent._updatePristine(opts);
}

/** @internal */
AbstractControl.prototype._updatePristine = function (opts) {
    if (opts === void 0) {
        this.pristine = !this._anyControlsDirty();
    }
    if (this._parent && !opts.onlySelf) {
        @internal */
    }
}

/**
 * Returns whether the control with the given path has the error specified.
 */
AbstractControl.prototype.getLastError = function (errorCode, path) { return control && control.errors ? control.errors[errorCode] : null; }

/**
 * Retrieves the top-level ancestor of this control.
 */
AbstractControl.prototype.root = function () {
    var x = this;
    while (x._parent) {
        x = x._parent;
    }
    return x;
}
```

---

### Retrieve a nested control

For example, to get a `name` control nested within a `person` subgroup:

```
this.form.get('person.name');
```

-OR-

```
this.form.get(['person', 'name']);
```

This method checks for the current control to the one that should be queried for errors.

```
this.get(path): this;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

`this.form.get(['person', 'name']);` 1. A period-delimited list of control names in one string, e.g. `'person.name'` 2. An array of string control names, e.g. `['person', 'name']` 3. A period-delimited list of control names in one string, e.g. `'person.name'` 4. An array of string control names, e.g. `['person', 'name']`

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
return control && & control.errors ? control.errors[errorCode] : null;
```

-OR-

```
return control && & control.errors ? control.errors[errorCode] : null;
```

### Retrieve a control

```
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```
(Configuration options that determine how the control propagates changes and emits events when the value changes.

The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity updateValueAndValidity}` method.

* `updateValueAndValidity`: When true, each change only affects this control, and not its parent. Default is `false`.
* `valueChanges`: `valueChanges` observables emit events with the latest status and value when the control value is updated.
* `statusChanges`: When false, no events are emitted.
* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `event` to update the view.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an event to update the model.

`FormControl.prototype.setValue` is functionally the same as `{@link FormGroup#setValue setValue} at this level. It exists for symmetry with `{@link FormArray#setValue setValue}` on `FormArrays`.

This function behaves differently if `options` is an object that defines the initial value and disabled state.

When false, no events are emitted.

- `emitEvent`: When true or not supplied (the default), when the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
- `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.
- `emitViewToModelChange`: When true or not supplied (the default), each change triggers an event to update the model.
- `emitModelToViewChange`: When true or not supplied (the default), each change triggers an event to update the view.

`FormControl.prototype.reset` is functionally the same as `{@link FormGroup#reset reset} on `FormGroups`.

`patchValue` is functionally the same as `{@link FormControl#setValue setValue}` at this level. It exists for symmetry with `{@link FormArray#patchValue patchValue}` on `FormArrays`.

This function is functionally the same as `{@link FormGroup#reset reset} on `FormGroups`.

* `valueChanges`: `valueChanges` observables emit events with the latest status and value when the control value is updated.
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`FormControl.prototype.updateValueAndValidity` is functionally the same as `{@link FormGroup#updateValueAndValidity updateValueAndValidity} at this level.
**FormGroup**

* Tracks the value and validity state of a group of `FormControl` instances. *A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid.*

* `FormGroup` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormArray`.*

* When instantiating a `FormGroup`, pass in a collection of child controls as the first argument. The key for each child registers the name for the control. *Create a form group with 2 controls:*

```javascript
const formGroup = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});
```

* The options object is used to set a default value for each child: *Create a form group with a group-level validator:

```javascript
const form = new FormGroup({
  password: new FormControl(''),
  passwordConfim: new FormControl(''),
}, { validators: passwordMatchValidator, asyncValidators: [new AsyncValidator(passwordConfirm)] });
```

* A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid.*

* You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.*

```javascript
const form = new FormGroup({
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```
The `FormGroup` class in Angular provides methods to manipulate form values and control validity.

### PATCH VALUE

The `patchValue` method is used to update the value of the `FormGroup` without invalidating the values of other controls in the group. It accepts an object with control names as keys, and it can be used with configuration options to determine how the control propagates changes and emits events after the value changes.

#### Syntax

```javascript
FormGroup.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(function (name) {
        _this._throwIfControlMissing(name);
        _this.controls[name].patchValue(value[name], {
            onlySelf: true, emitEvent: options.emitEvent
        });
    });
    this.updateValueAndValidity();
}
```

#### Parameters
- `value`: The new value for a form group
- `options`: Configuration options that determine how the control propagates changes and emits events after the value changes.

#### Configuration Options

- `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false` for disabled controls. If you'd like to check for existence in the group only, use `@link AbstractControl#get get` instead.
- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

### SET VALUE

The `setValue` method is used to set the complete value for the form group. It accepts an object that matches the structure of the group, and it can also accept additional configuration options.

#### Syntax

```javascript
FormGroup.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(function (name) {
        if (_this.controls[name])
            _this.controls[name].setValue(value[name], { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity();
}
```

#### Parameters
- `value`: The new value for a form group
- `options`: Configuration options that determine how the control propagates changes and emits events after the value changes.

#### Configuration Options

- `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false` for disabled controls.
- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

### PATCH METHODS

The `patchMethod` methods are used to modify the values of the `FormGroup` controls according to the changes in the `value` parameter.

#### Syntax

```javascript
AbstractControl.prototype.patchMethod = function (name, method, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(function (name) {
        if (_this.controls[name])
            _this.controls[name].patchMethod(name, method, options);
    });
    this.updateValueAndValidity();
}
```

#### Parameters
- `name`: The control name to replace in the collection
- `method`: The method to call on the control
- `options`: Additional configuration options

### OTHER METHODS

- `contains`: Returns true if the given control name exists in the `FormGroup`. Returns false for disabled controls.
- `setControl`: Replaces the existing control with the given control.
- `removeControl`: Removes the control with the given name from the `FormGroup`.
- `get`: Returns the control for the given name.
- `set`: Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group, with control names as keys.
- `remove`: Removes the given control from the `FormGroup`.

### Usage Examples

```javascript
const form = new FormGroup({
    first: new FormControl(),
    last: new FormControl()
});
console.log(form.value);   // {first: null, last: null}

form.setValue({first: 'Nancy', last: 'Drew'});
console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
```

### Notes

- The `patchValue` method does its best to match the values to the correct controls in the group.
- The `setValue` method can be used to set the complete value for the form group.
- The `patchMethod` methods are used to modify the values of the `FormGroup` controls according to the changes in the `value` parameter.

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options are passed to the `@link AbstractControl#updateValueAndValidity` method.

```

* @param options Configure options that determine how the control propagates changes and emits events after the value changes

* @param value Array of latest values for the controls

* @param index Index to remove the control

* @param index Index in the array to replace the control

* @param control The `AbstractControl` control to replace the existing control

* @param index Index in the array to insert the control

* @param control Form control to be inserted

* `FormArray.prototype.push = function (control) {`}

```
### Reset the values in a form array

```javascript
FormArray.prototype._updateValueAndValidity(options);
```

- Resets the `FormArray` and all descendants are marked as `pristine` and `untouched`, and the
  value of all descendants to null or null maps.
- You reset to a specific form state by passing in an array of states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.
- * @param value Array of values for the controls
- * @param options Configure options that determine how the control propagates changes and emits events after the value changes.
- * `onlySelf` : When true, each change only affects this control, and not its parent. Default is `false`.
- * `emitEvent`: When true or not supplied (the default), both the `valueChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
- * When false, no events are emitted.
- * The configuration options are passed to the `updateValueAndValidity` method.

```typescript
FormArray.prototype.getRawValue = function () {
    return this.controls.map(control => {
        return control instanceof FormControl ? control.value : control.getRawValue();
    });
}
```

- The aggregate value of the array, including any disabled controls.
- * @param value Array of values for the controls
- * @param options Configure options that determine how the control propagates changes and emits events after the value changes.
- * `onlySelf` : When true, each change only affects this control, and not its parent. Default is `false`.
- * `emitEvent`: When true or not supplied (the default), both the `valueChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
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```javascript
FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    if (options === void 0) { options = {}; }
    value.forEach(function (newValue, index) {
        if (_this.at(index)) {
            _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
        }
    });
    this.updateValueAndValidityAndValidity(options);
}
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        }
    });
    this.updateValueAndValidityAndValidity(options);
}
```
var _this = this;
this.value =
this.controls.filter(function (control) { return control.enabled || _this.disabled; })
.map(function (control) { return control.value; })
// @internal *\n
FormArray.prototype._anyControls = function (condition) { /*\nreturn this.controls.some(function (control) { return control.enabled && condition(control); })*/
/** @internal */
FormArray.prototype._setUpControls = function () { /*\nvar this = this;
this_forEachChild(function (control) { return this._registerControl(control); });
/** @internal */
FormArray.prototype._checkAllValuesPresent = function (value) { /*\nthis_forEachChild(function (control, i) { if (value[i] === undefined) throw new Error("Must supply a value for form control at index: \"i + 1 + \"\";\n});
/** @internal */
FormArray.prototype._allControlsDisabled = function () { /*\ne_2, _a;
try { for (var _b = __values(this.controls), _c = _b.next(); !_c.done; _c = _b.next()) {
if (control.enabled) return false;
}
} catch (e_2_1) { e_2 = { error: e_2_1 }; }
finally {
if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
}
} finally { if (e_2) throw e_2.error; } || this.disabled;
}:
FormArray.prototype.registerControl = function (control) { /*\ncontrol.setParent(this);
control._registerOnCollectionChange(this._onCollectionChange);
return FormArray;
}.
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
formDirectiveProvider = {
provide:
ControlContainer, useExisting: core.forwardRef(function () { return NgForm; })
};
var 0 = function () { return Promise.resolve(null); };
resolvedPromise = (0)();
/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a form to track aggregate form value and validation status.
 * As soon as you import the `FormsModule`, this directive becomes active by default on all `<form>` tags.
 * You don't need to add a special selector.
 * You optionally export the directive into a local template variable using `ngForm` as the key (ex: `#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying `FormGroup` instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value and validity status of the form, as well as user interaction properties like `dirty` and `touched`. To register child controls with the form, use `NgModel` with a `name` attribute. You may use `NgModelGroup` to create sub-groups within the form.
 * If necessary, listen to the directive's `ngSubmit` event to be notified when the user has triggered a form submission. The `ngSubmit` event emits the original form submission event.
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` attribute.
 * In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.
 * To register child controls with the form, use `NgModel` with a `name` attribute.
 * The following example shows how to capture the form values from the `<formSubmit>` event.
 * Setting the update options
 * The following example shows you how to change the `updateOn` option from its default using `ngFormOptions`.
 * For example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert.
 * In that case, you would refrain from using the `formGroup` directive.
 * To register child controls with the form, use `NgModel` with a `name` attribute.
 * The following example shows how to change the `updateOn` option from its default using `ngFormOptions`.
 * For example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert.
 * In that case, you would refrain from using the `formGroup` directive.
 * To register child controls with the form, use `NgModel` with a `name` attribute.
 * The following example shows how to change the `updateOn` option from its default using `ngFormOptions`.
 * For example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert.
 * In that case, you would refrain from using the `formGroup` directive.
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 * In that case, you would refrain from using the `formGroup` directive.
 * To register child controls with the form, use `NgModel` with a `name` attribute.
 * The following example shows how to change the `updateOn` option from its default using `ngFormOptions`.
 * For example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert.
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 * In that case, you would refrain from using the `formGroup` directive.
 * To register child controls with the form, use `NgModel` with a `name` attribute.
NgForm.prototype.ngAfterViewInit = function () { this._setUpdateStrategy(); };

Object.defineProperty(NgForm.prototype,"formDirective",{
    enumerable: true,
    configurable: true,
    get: function () { return this; },
});

Object.defineProperty(NgForm.prototype,"controls",{
    enumerable: true,
    configurable: true,
    get: function () { return this.form.controls; },
});

NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
        container.updateValueAndValidity({ emitEvent: false });
        _this._directives.push(dir);
    });
}

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.removeControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.addAsyncValidator = function (validator) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}

NgForm.prototype.removeAsyncValidator = function (validator) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        }
    });
}
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```javascript
/**
 * @param {Event} event - The event that triggered the validation.
 * @return {boolean} - Whether the validation passed.
 */
export function validate(event) {
    // Validate here...
    return true;  // Example validation result
}

NgForm.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    this.resetForm(value);
    this.submitted = false;
    this.form.reset(value);
    this.submitted = false;
    this.ngSubmit.emit(event);
    this.resetForm();
    this.formDirective.addFormGroup(this);
}

NgForm.prototype.onSubmit = function (event) {
    this.submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit(event);
    return false;
}

NgForm.prototype.onReset = function () {
    this.resetForm();
    this.formDirective.removeFormGroup(this);
    this.formDirective.addFormGroup(this);
    this.submitted = false;
    this.form.reset(value);
    this.submitted = false;
    this.ngSubmit.emit(event);
    this.resetForm();
}
```

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export { NgForm } from '@angular/forms';

```
```
Object.defineProperty(AbstractFormGroupDirective.prototype, 'asyncValidator', {
    /**
     * The async validators registered with this group.
     */
    get: function () {
        return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    configurable: true
  });

/** @internal */
AbstractFormGroupDirective.prototype._checkParentType = function () { }

return AbstractFormGroupDirective;
})(ControlContainer);

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*/

var TemplateDrivenErrors = /** @class */ (function () {
    function TemplateDrivenErrors() {
    }

    TemplateDrivenErrors.modelParentException = function () {
        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroup directive.  Try using formGroup's partner directive " + FormErrorExamples.formGroupName + " instead. Example: `\n      \"\" + FormErrorExamples.formControlName + "\n      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:\n\n      Example:\n\n      " + FormErrorExamples.ngModelWithFormGroup);
        };

    TemplateDrivenErrors.formGroupNameException = function () {
        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formGroupName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
        };

    TemplateDrivenErrors.missingNameException = function () {
        throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.\n\n      Example 1: <input
      [(ngModel)]=\"person.firstName\" name=\"first\">\n      Example 2: <input
      [(ngModel)]=\"person.firstName\" [ngModelOptions]=\"{standalone: true}\”>\n\n      Example: `\n      " + FormErrorExamples.ngModelGroupWithFormGroup);
        };

    TemplateDrivenErrors.formGroupNameException = function () {
        throw new Error("\n      ngModelGroup cannot be used with a parent formGroup directive.\n\n      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
        };

    return TemplateDrivenErrors;
})(core.forwardRef(function () { return NgModelGroup; }));

/** @ngModule FormsModule */

var NgModelGroup = /** @class */ (function (_super) {
    __extends(NgModelGroup, _super);

    function NgModelGroup(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }

    NgModelGroup.prototype._checkParentType = function () {
        if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
            TemplateDrivenErrors.modelGroupParentException();
        }
    };

    var NgModelGroup_1;

    __decorate([core.Input('ngModelGroup')], NgModelGroup.prototype, "name", void 0);

    NgModelGroup = NgModelGroup_1 = __decorate([
      core.Input('ngModelGroup'),
      core.forwardRef(function () { return NgModelGroup; })
    ], NgModelGroup);

    return NgModelGroup;
  }());

export { NgModelGroup } from './form_group_directives';

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core.Directive({ selector: '[ngModelGroup]', providers: [modelGroupProvider, exportAs: 'ngModelGroup' ] });

    /**
     * @license
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     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var formControlBinding = {
        provide: NgControl,
        useExisting: core.forwardRef(function () { return NgModel; })
    };
    var 0$1 = function () { return Promise.resolve(null); }
    /**
     * `ngModel` forces an additional change detection run when its inputs change:
     * E.g.:
     * ```
     * <div>{{myModel.valid}}</div>
     * <input [(ngModel)]="myValue" #myModel="ngModel">
     * ```
     * I.e. `ngModel` can export itself on the element and then be used in the template.
     * Normally, this would result in expressions before the `input` that use the exported directive
     * to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change
     * detection run.
     *
     * Notes:
     * - this is just one extra run no matter how many `ngModel` have been changed.
     * - this is a general problem when using `exportAs` for directives!
     * - var resolvedPromise$1 = (0$1)();
     *
     * ### Using ngModel on a standalone control
     *
     * The following examples show a simple standalone control using `ngModel`:
     *
     * ```html
     * <form>
     *   <input name="login" ngModel placeholder="Login">
     *   <input type="checkbox" ngModel
     *      [ngModelOptions]="{standalone: true}"> Show more options?
     * </form>
     * ```
     *
     * ### Setting the ngModel name attribute through options
     *
     * The following example shows controls using `ngModel` with a name attribute:
     *
     * ```html
     * <form>
     *   <input name="login" ngModel placeholder="Login"
     *      [ngModelOptions]="{standalone: true}">
     * </form>
     * <<<
     * ```
     * 
     */

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```typescript
function NgModel(parent, validators, asyncValidators, valueAccessors) {
    var _this = _super.call(this) || this;
    _this.control = new FormControl();
    /** @internal */
    _this._registered = false;
    /**
     * @description
     * Event emitter for producing the `ngModelChange` event after
     * the view model updates.
     */
    _this.update = new core.EventEmitter();
    _this._parent = parent;
    _this._rawValidators = validators || []; _this._rawAsyncValidators = asyncValidators || [];
    _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
    return _this;
}

NgModel.prototype.ngOnChanges = function (changes) {
    this._checkForErrors();
    if (!this._registered)
        this._setUpControl();
    if ('isDisabled' in changes) {
        this._updateDisabled(changes);
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
        this._updateValue(this.model);
            this.viewModel = this.model;
    }
}

NgModel.prototype._setUpControl = function () {
    this._setUpdateStrategy();
    this._isStandalone() ? this._setUpStandalone() :
        this.formDirective.addControl(this);
    this._registered = true;
}

NgModel.prototype._setUpdateStrategy = function () {
    if (this.options && this.options.updateOn != null) {
        this.control._updateOn = this.options.updateOn;
    }
}

NgModel.prototype._isStandalone = function () {
    return !this._parent || !!(this.options &&
this.options.standalone);
}

NgModel.prototype._setUpStandalone = function () {
    setUpControl(this.control, this);
    this.control.updateValueAndValidity({ emitEvent: false });
}

NgModel.prototype._checkForErrors = function () {
    if (!this._isStandalone()) {
        this._checkParentType();
    }
    this._checkName();
}

NgModel.prototype._checkParentType = function () {
    if (!(this._parent instanceof NgModelGroup) &&
this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    }
    else if (!(this._parent instanceof NgModelGroup) &&
this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    }
}

NgModel.prototype._checkName = function () {
    var _this = this;
    (function (name) {
        if (!name) {
            throw ngError('NgModel name cannot be null or empty.');
        }
    })(this.name);
}

NgModel.prototype.ngOnDestroy = function () { this.formDirective &&
this.formDirective.removeControl(this); };

Object.defineProperty(NgModel.prototype, "path", {
    /**
     * @description
     * Returns an array that represents the path from the top-level form to this
     * control.
     * Each index is the string name of the control on that level.
     * @returns {Array.<string>} A list of names that make up the path to this
     * control.
     */
    get: function () {
        return this._parent ? controlPath(this.name, this._parent) : [this.name];
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "formDirective", {
    /**
     * @description
     * The top-level directive for this control if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "validator", {
    /**
     * @description
     * Synchronous validator function composed of all the synchronous validators
     * registered with this directive.
     */
    get: function () { return composeValidators(this._rawValidators); },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "asyncValidator", {
    /**
     * @description
     * Async validator function composed of all the async validators registered
     * with this directive.
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

NgModel.prototype.viewToModelUpdate = function (newValue) {
    this.viewModel = newValue;
this.update.emit(newValue);
}
```

TemplateDrivenErrors.modelParentException();

NgModel.prototype._checkName = function () {
    if (this.options && this.options.name) {
        this.name = this.options.name;
    }
}

NgModel.prototype._updateValue = function (value) {
    if (this.options && this.options.name) {
        this.name = this.options.name;
    }
    if (!this._isStandalone() && !this.name) {
        TemplateDrivenErrors.missingNameException();
    }
}

NgModel.prototype._updateDisabled = function (changes) {
    var _this = this;
    resolvedPromise$1.then(function () {
        _this.control.setValue(value, { emitViewToModelChange: false });
    });
    (isDisabled & !_this.control.disabled) {
        _this.control.enable();
    } else if (!isDisabled & !_this.control.disabled) {
        _this.control.enable();
    }
}

__decorate([core.Input(),
            __metadata("design:type", String)
        ], NgModel.prototype,
        "name", void 0);

__decorate([core.Input('disabled'),
            __metadata("design:type",
            Boolean)
        ], NgModel.prototype,
        "isDisabled", void 0);

__decorate([core.Input('ngModel'),
            __metadata("design:type", Object)
        ], NgModel.prototype,
        "model", void 0);

__decorate([core.Input('ngModelOptions'),
            __metadata("design:type", Object)
        ], NgModel.prototype,
        "options", void 0);

__decorate([core.Output('ngModelChange'),
            __metadata("design:type", Object)
        ], NgModel.prototype,
        "update", void 0);

NgModel = __decorate([core.Directive({
                selector: '
            [ngModel]:not([formControlName]):not([formControl])',
                host: { 'novalidate': '' },
            })
        ], NgNoValidate);

NgNoValidate = /** @class */ (function () {
    function NgNoValidate() {
    }
    NgNoValidate = __decorate([core.Directive({
                selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
            })
        ], NgNoValidate);
    return NgNoValidate;
})();

NG_MODEL_WITH_FORM_CONTROL_WARNING = new core.InjectionToken('NgModelWithFormControlWarning');

formControlBinding$1 = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return FormControlDirective; })
};

reactiveFormsModule$1 = "@ngModule ReactiveFormsModule";
Synchronous validator function composed of all the synchronous validators registered with this object.

```typescript
Object.defineProperty(FormControlDirective.prototype, "validator", {
    /**
     * @description
     * return 
     */
    get: function () {
    ```

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for ReactFormsModule at import time:

```typescript
import {ReactiveFormsModule} from '@angular/forms';

ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'});
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `"always\"`. This may help to track down where in the code the pattern is being used as the code is being updated.

```typescript
var _this = _super.call(this) || this;
```

Instance property used to track whether an ngModel warning has been sent out for this particular FormControlDirective instance. Used to support warning config of `"always\"`.

```typescript
@description
this._ngModelWarningConfig = _ngModelWarningConfig;
```

Triggers a warning that this input should not be used with reactive forms.

```typescript
formControl = /** @class */ (function (_super) {
    __extends(FormControlDirective, _super);
```

To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.

```typescript
* After (choice 1 - use reactive forms):
* @ngModule ReactiveFormsModule
* @publicApi
* import FormControlDirective = /** @class */ (function (_super) {
```

After (choice 2 - use template-driven forms):

```typescript
* @input [formControl]='\"control\"'
* * * * * * * this.control.setValue('some value');
```

This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `\"ngModel\"` directive is being used, but in fact it's an input/output property named `\"ngModel\"` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `\"ngModel\"`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

```typescript
* * * * * * * * this.control.setValue('some value');
```

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

```typescript
* To update your code before support is removed, you'll want to decide whether to stick
```
directive.
*/

function () { return composeValidators(this._rawValidators); });

Object.defineProperty(FormControlDirective.prototype, "asyncValidator", { enumerable: true, configurable: true });

* @description
* Async validator function composed of all the async validators registered with this

directive.
*/

function () { return composeAsyncValidators(this._rawAsyncValidators); },

Object.defineProperty(FormControlDirective.prototype, "control", { enumerable: true, configurable: true });

* @description
* The `FormControl` bound to this directive.

function () { return this.viewModel; },

Object.defineProperty(FormControlDirective.prototype, "control", { enumerable: true, configurable: true });

* @description
* The form model.

object {}

* @description
* Reports whether the form submission has been triggered.

false;

* @description
* Tracks the list of added `InputName` instances

true

* @description
* Filters the list of added `InputName` instances

true

* @description
* Binds an existing `FormGroup` to a DOM element.

false

* @description
* Converts a DOM element to an existing `FormGroup`.

true

* @description
* Accepts a DOM element or an existing `FormGroup`.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.

true

* @description
* Registers a new `AbstractControl` instance.

true

* @description
* Adds a new `FormArray` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormGroup` instance to the existing `FormGroup`.

true

* @description
* Adds a new `FormControl` instance to the existing `FormGroup`.

true

* @description
* Registers a new `FormGroup` instance.

true

* @description
* Registers a new `FormArray` instance.

true

* @description
* Registers a new `FormControl` instance.
Tracks the `FormGroup` bound to this directive.

`_this.form = null;`  

`/**
 * Emits an event when the form submission has been triggered.
 */
_this.ngSubmit = new core.EventEmitter();

return _this;

/**
 * @description
 * @param 
 * A lifecycle method called when the directive's inputs change. For internal use only.
 */
FormGroupDirective.prototype.ngOnChanges = function (changes) {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
        this._updateValidators();
        this._updateRegistrations();
    }
};

Object.defineProperty(FormGroupDirective.prototype, "formDirective", {
    /**
     * @description
     * Returns this directive's instance.
     */
    get: function () { return this; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "control", {
    /**
     * @description
     * Returns the `FormGroup` bound to this directive.
     */
    get: function () { return this.form; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "path", {
    /**
     * @description
     * Returns an array representing the path to this group. Because this directive
     * always lives at the top level of a form, it always an empty array.
     */
    get: function () { return []; },
    enumerable: true,
    configurable: true
});

FormGroupDirective.prototype.addControl = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
    return ctrl;
};

FormGroupDirective.prototype.removeControl = function (dir) {
    removeDir(this.directives, dir);
};

FormGroupDirective.prototype.addFormGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormGroup = function (dir) {
};

FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };

FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.updateModel = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
};

FormGroupDirective.prototype.updateFormModel = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
};
called with the \`submit\" event is triggered on the form.\n  * Triggers the \'ngSubmit\' emitter to emit the \"submit\" event as its payload.\n  * @param \$event The \"submit\" event object  
  * @ngInject  
  * syncPendingControls(this.form, this.directives);\n  * this.submitted = true;\n  * this.ngSubmit.emit($event);\n  * return false;\n  */\n  * @description  
  * Method called when the \"reset\" event is triggered on the form.\n  */\n  * @description  
  * Resets the form to an initial value and resets its submitted status.\n  */\n  * @param value The new value for the form.\n  */\n  * FormGroupDirective.prototype.resetForm = function (value) {\n  * if (value === void 0) { value = undefined; }\n  * this.form.reset(value);\n  * this.submitted = false;\n  }\n  /**\n   * @description\n   * Method called when the \"reset\" event is triggered on the form.\n   */\n  FormGroupDirective.prototype.onReset = function () { this.resetForm(); }\n  /**\n   * @description\n   * Resets the form to an initial value and resets its submitted status.\n   */\n  FormGroupDirective.prototype._checkFormPresent = function () {\n    if (!this.form) { ReactiveErrors.missingFormException(); }\n  }\n  FormGroupDirective.prototype._updateRegistrations = function () {\n    var _this = this;\n    this.form._registerOnCollectionChange(function () { return _this._updateDomValue(); });\n    if (this._oldForm)\n      this._oldForm._registerOnCollectionChange(function () { });\n    this._oldForm = this.form;\n  }\n  /**\n   * @description\n   * Method called when the \"submit\" event is triggered on the form.\n   */\n  FormGroupDirective.prototype.onSubmit = function ($event) {\n    this.submitted = true;\n    syncPendingControls(this.form, this.directives);\n    this.ngSubmit.emit($event);\n    return false;\n  }\n  /**\n   * @description\n   * Method called when the \"reset\" event is triggered on the form.\n   */
}
```
/*
 * @ngModule
 * @publicApi
 */

function FormGroupName(parent, validators, asyncValidators) {
    var _this = super.call(this) || this;
    _this._parent = parent;
    _this._validators = validators;
    _this._asyncValidators = asyncValidators;
    return _this;
}

FormGroupName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
}

FormGroupName = abstractClass(FormGroupName, 
    core.Input('formGroupName'),
    core.Directive({ selector: '[formGroupName]', providers: [FormArrayNameProvider] }),
    core.Inject(NG_VALIDATORS),
    core.Inject(NG_ASYNC_VALIDATORS),
    // metadata('design:tparams"', [ControlContainer, Array, Array]),
    FormArrayName
);

FormArrayName = abstractClass(FormGroupName, 
    core.Input('formArrayName'),
    core.Directive({ selector: '[formArrayName]', providers: [FormArrayNameProvider] }),
    core.Inject(NG_VALIDATORS),
    core.Inject(NG_ASYNC_VALIDATORS),
    // metadata('design:tparams"', [ControlContainer, Array, Array]),
    FormArrayName
);
```

---

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get: function () { 
        return composeAsyncValidators(this._asyncValidators);
    },

    enumerable: true,
    configurable: true
);}

FormArrayName.prototype._checkParentType = function () {
    if (!_hasInvalidParent(this._parent)) { ReactiveErrors.arrayParentException();
        return
    }

    _decorate(
        {name: 'FormArrayName',
            _metadata: {design: {type: 'Object'}},
            FormArrayName, void 0);
    FormArrayName = _decorate((
        coreDirective{
            selector: [formArrayName],
            providers: [formArrayNameProvider ]},
        __param(0, core.Optional()),
        __param(0, core.Host()),
        __param(0, core.SkipSelf()),
        __param(1, core.Optional()),
        __param(1, core.Optional()),
        __param(1, core.Optional()),
        __param(2, core.Optional()),
        __param(2, core.Optional()),
        __param(2, core.Optional()),
        __metadata({design: {paramtypes: [ControlContainer, Array, Array]}}, FormArrayName),
    FormArrayName, FormArrayName, function _hasInvalidParent(parent) { return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) && !(parent instanceof FormArrayName); });

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
     * https://angular.io/license
     */
    var controlNameBinding = {
        provide: NgControl,
        useExisting: core.forwardRef(function () { return FormControlName; })
    };

doctorNg{}(controlNameBinding, void 0);
'required ? \"\" : null' )\n        }, RequiredValidator);\n    return RequiredValidator;\n});\n/**\n * A Directive that adds the `required` validator to checkbox controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n */\n* @see [Form Validation][guide/form-validation]\n* \u201ca_required\u201d,\n* @usageNotes\n* ### Adding a required checkbox validator using template-driven forms\n* The following example shows how to add a required checkbox validator to an input attached to an angular binding.\n*\n\n\n\n```html\n   <input type="checkbox" name="active" ngModel required>\n```
*\n* A directive that adds the `required` validator to controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n*\n*\n\n\n```html\n   <input type="email" name="email" ngModel email>\n   <input type="email" name="email" ngModel email="true">\n   <input type="email" name="email" ngModel [email]="true">\n```
*\n* A directive that adds minimum length validation to controls marked with the `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n*\n*\n\n\n```html\n   <input type="email" name="email" ngModel email="true">\n   <input type="email" name="email" ngModel email="true" emails>\n   <input type="email" name="email" ngModel email="true" emails="true">\n```
*\n* A directive that adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n*\n*\n\n\n```html\n   <input type="email" name="email" ngModel email="true">\n   <input type="email" name="email" ngModel email="true" emails>\n   <input type="email" name="email" ngModel email="true" emails="true">\n```
*\n* A directive that adds the `required` validator to controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n*\n*\n\n\n```html\n   <input type="email" name="email" ngModel email="true">\n   <input type="email" name="email" ngModel email="true" emails>\n   <input type="email" name="email" ngModel email="true" emails="true">\n```
shows how to add a minimum length validator to an input attached to an \* ngModel binding.

```html
<input name="firstName" ngModel minlength="4">
```

```typescript
/** @class */ (function () {
    function MinLengthValidator() {
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     */
    MinLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('minlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value meets a minimum length
     * requirement. Returns the validation result if enabled, otherwise null.
     */
    MinLengthValidator.prototype.validate = function (control) {
        return this.minlength == null ? null : this._validator(control);
    };
    /**
     * @description
     * Registers a callback function to call when the validator inputs change.
     * @param fn The callback function
     */
    MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    MinLengthValidator.prototype._createValidator = function () {
        this._validator = Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
    };
    __decorate(
        [
            core.Input(),
            __metadata("design:type", Object)
        ],
        MinLengthValidator.prototype, "minlength", void 0);
    MinLengthValidator = __decorate(
        [
            core.Directive({
                selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',
                providers: [MIN_LENGTH_VALIDATOR],
                host: { '[attr.minlength]': 'minlength ? minlength : null' }
            })
        ], MinLengthValidator);
    return MinLengthValidator;
});
```

```typescript
/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var MAX_LENGTH_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return MaxLengthValidator; }),
    multi: true
};
```

```typescript
/**
 * A directive that
 adds max length validation to controls marked with the
 `maxlength` attribute. The directive is provided with
 the `NG_VALIDATORS` multi-provider list.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * ### Adding a maximum length validator
 *
 * The following example shows how to add a maximum length validator to an input attached to an
 * ngModel binding.

```html
<input name="firstName" ngModel maxlength="25">
```

```typescript
/**
 * @class */ (function () {
    function MaxLengthValidator() {
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     */
    MaxLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('maxlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value exceeds
     * the maximum length
     */
    MaxLengthValidator.prototype.validate = function (control) {
        return this.maxlength != null ? this._validator(control) : null;
    };
    /**
     * Registers a callback function to call when the validator inputs change.
     * @param fn The callback function
     */
    MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    MaxLengthValidator.prototype._createValidator = function () {
        this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
    };
    __decorate(
        [
            core.Input(),
            __metadata("design:type", Object)
        ],
        MaxLengthValidator.prototype, "maxlength", void 0);
    MaxLengthValidator = __decorate(
        [
            core.Directive({
                selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
                providers: [MAX_LENGTH_VALIDATOR],
                host: { '[attr.maxlength]': 'maxlength ? maxlength : null' }
            })
        ], MaxLengthValidator);
```
**PatternValidator**: A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.

```html
<input name="firstName" ngModel pattern="[a-zA-Z ]*">
```

@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi

```
PatternValidator.prototype.ngOnChanges = function (changes) {
    if ('pattern' in changes) {
        this._createValidator();
        if (this._onChange)
            this._onChange();
    }
}
```

```
PATTERN_VALIDATOR = {
  provide: NG_VALIDATORS,
  useExisting: core.forwardRef(function () {
    return PatternValidator;
  }),
  multi: true
};
```

```javascript
/**
 * @description
 * Method that validates whether the value matches the pattern requirement.
 */
PatternValidator.prototype.validate = function (control) {
    return this._validator(control);
}
```

```javascript
/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 *
 * @param fn The callback function
 */
PatternValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
}
```

```javascript
PatternValidator.prototype._createValidator = function () {
    this._validator = Validators.pattern(this.pattern);
}
```

```javascript
@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi

PatternValidator = /** @class */ (function () {
  function PatternValidator() {
  }
  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  this._createValidator();
  if (this._onChange)
    this._onChange();
}
```

```javascript
PatternValidator = __decorate([core.Input(),
  __metadata("design:type", Object)], PatternValidator.prototype,
  "pattern", void 0);
```

```javascript
var InternalFormsSharedModule = /** @class */ (function () {
  function InternalFormsSharedModule() {
  }
  InternalFormsSharedModule = __decorate([core.NgModule({
                declarations: SHARED_FORM_DIRECTIVES,
                exports: SHARED_FORM_DIRECTIVES,
            })], InternalFormsSharedModule);
  return InternalFormsSharedModule;
}
```

```javascript
function isAbstractControlOptions(options) {
    return options.asyncValidators !== undefined ||
        options.validators !== undefined ||
        options.updateOn !== undefined;
}
```

```javascript
/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a
 * `AbstractControl`, `FormArray`, or `Form`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](https://angular.io/guide/reactive-forms)
 *
 * @publicApi
 */
```
```javascript
var FormBuilder = /** @class */ (function () {
    function FormBuilder() {
    }
    /**
     * Constructs a new `FormBuilder` instance.
     */
    FormBuilder.prototype._createControl = function (controlsConfig) {
        var _this = this;
        var controls = {};
        Object.keys(controlsConfig).forEach(function (controlName) {
            var control = controlsConfig[controlName];
            if (control instanceof FormControl || control instanceof FormGroup ||
                control instanceof FormArray) {
                return control;
            }
            else if (control instanceof AbstractControlOptions) {
                return control;
            }
            else if (Array.isArray(control)) {
                return control;
            }
            else if (isAbstractControlOptions(control)) {
                return _this._createControl(control);
            }
        }
        return new FormArray(controls, validatorOrOpts, asyncValidator);
    }
    /**
     * Constructs a new `FormBuilder` with the given state, validators and options.
     */
    FormBuilder.prototype.group = function (controlsConfig, options) {
        if (options === void 0) { options = null; }
        var controls = this._reduceControls(controlsConfig);
        var validators = null;
        var asyncValidators = null;
        var updateOn = undefined;
        if (options != null) {
            if (options instanceof FormControlOptions) {
                // `options` are `AbstractControlOptions`
                validators = options.validators != null ? options.validators : null;
                asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
            } else if (options instanceof FormGroupOptions) {
                // `options` are legacy form group options
                validators = options['validator'] != null ? options['validator'] : null;
                asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
            } else if (options instanceof FormArrayOptions) {
                // `options` are legacy form array options
                validators = options['validator'] != null ? options['validator'] : null;
                asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
            } else if (options instanceof AbstractControlOptions) {
                // `options` are `AbstractControlOptions`
                validators = options['validator'] != null ? options['validator'] : null;
                asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
            } else if (isAbstractControlOptions(options)) {
                // `options` are legacy form group options
                validators = options['validator'] != null ? options['validator'] : null;
                asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
            } else if (options) {
                // `options` are a single async validator or array of async validators
                validators = options['validator'] != null ? options['validator'] : null;
                asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
            } else if (validatorOrOpts) {
                validators = validatorOrOpts != null ? validatorOrOpts : null;
                asyncValidators = null;
            }
        }
        var FormBuilder = __decorate([  
            controlConfig[1] : null;
            return this.control(value, validator, asyncValidator);
        }
        return this.control(controlConfig);
    }
        */
        FormBuilder.prototype._reduceControls = function (controlsConfig) {
            var _this = this;
            var controls = {};
            Object.keys(controlsConfig).forEach(function (controlName) {
                var control = controlsConfig[controlName];
                if (control instanceof FormControl || control instanceof FormGroup ||
                    control instanceof FormArray) {
                    return control;
                }
                else if (control instanceof AbstractControlOptions) {
                    return control;
                }
                else if (Array.isArray(control)) {
                    return control;
                }
                else if (isAbstractControlOptions(control)) {
                    return _this._createControl(control);
                }
            }
        };
```

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{"version":3,"file":"forms.js","sources":[]}
registerOnTouched` in your own value accessor, save the given function so your class calls it when the control should be considered blurred or 'touched'.

```ts
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

On blur (or equivalent), your class should call the registered function to allow the forms API to update itself:

```ts
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

Depending on the status, it enables or disables the appropriate DOM element.

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

The disabled status should be set on the element:

```ts
setDisabledState?(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

To use a `ControlValueAccessor` for form controls, you can use:

```ts
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

### Registering a function called when the control value changes.

```ts
registerOnChange(fn: (_: any) => {}): void {
  this.onChange = fn;
}
```

### Registering a function called when the control is touched.

```ts
registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}
```

We must check whether the agent is Android because composition events behave differently between iOS and Android.
Android

```typescript
function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}

/**
 * @description
 * Provide this token to control
 * if form directives buffer IME input until
 * the `compositionend` event occurs.
 * @publicApi
 */
export const COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');

/**
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input
 * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and
 * The following example shows how to use an input element that activates the default value accessor
 * in this case, a text field.
 * const firstNameControl = new FormControl('');
 * const isAndroid: boolean = !_isAndroid();
 * if (isAndroid) {
 *   // Set the default value
 *   firstNameControl.setValue('Android');
 * } else {
 *   // Clear the field if not Android
 *   firstNameControl.setValue('');
 * }
 *
 * // Input field with form control binding
 * <input type="text" [formControl]="firstNameControl" />
 *
 * // TODO: vsavkin replace the above selector with the one below it once it's implemented
 "input:not([type=checkbox])[formControl], textarea[formControl], input:not([type=checkbox])[formControl], textarea[formControl], [ngDefaultControl], [ngModel], [formControl]:not([type=checkbox])
 ```
validation errors exist with the current value.

If the control is not present, null is returned.

Boolean

* @param errorCode The code of the error to check
  *
  * @param path A list of control names that designates how to move
  * from ancestor controls. If the control is not present, null is
  * returned.
  *
  * Returns the control's validation status.
  * Possible values include: 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
  *
  * If the control is not present, null is returned.
  *
  * Returns a multicasting observable of value changes for the control that emits
  * every time the control's value changes in the UI or programmatically.
  *
  * If the control is not present, null is returned.
  *
  * Returns a multicasting observable that emits a validation status whenever it
  * is calculated for the control. If the control is not present, null is returned.
  *
  * Returns whether the control is pristine, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is dirty, meaning that the user has changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns an array that represents the path from the top-level form to this control.
  * Each index is the string name of the control on that level.
  *
  * Returns whether the given error is present in the control at the given path.
  * If the control is not present, false is returned.
  *
  * Returns whether the given error is present in the control at the given path.
  * If the control is not present, false is returned.
  *
  * Returns whether a control is pending, meaning that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is
  * returned.
  *
  * Returns whether the control is enabled, meaning that the control is disabled
  * in the UI and is exempt from validation checks and excluded from aggregate
  * values of ancestor controls. If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the control is disabled
  * in the UI and is exempt from validation checks and excluded from aggregate
  * values of ancestor controls. If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
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  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
  *
  * If the control is not present, null is returned.
  *
  * Returns whether the control is enabled, meaning that the user has not yet changed
  * the value.
from the current control * to the control that should be queried for errors.

* For example, for the following FormGroup:

```javascript
const form = new FormGroup({
  street: new FormControl()
});
```

* The path to the 'street' control from the root
form would be 'address' -> 'street'.

* It can be provided to this method in one of two formats:

- An array of string control names, e.g. ['address', 'street']
- A period-delimited list of control names in one
string, e.g. 'address.street'

* @returns error data for that particular error. If the control or error is not
present, null is returned.

```javascript
getError(errorCode: string, path?: string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

*/

```javascript
/**
 * @description
 * A base class for directives that contain multiple registered instances of `NgControl`.
 * Only used by the forms module.

 * @usageNotes
 * For example, for the following `FormGroup`:

```javascript
const form = new FormGroup({
  address: new FormGroup({ street: new FormControl() })
});
```

* The path to the 'street' control from the root
form would be 'address' -> 'street'.

* It can be provided to this method in one of two formats:

- An array of string control names, e.g. ['address', 'street']
- A period-delimited list of control names in one
string, e.g. 'address.street'

* @returns error data for that particular error. If the control or error is not
present, null is returned.

* @returns error data for that particular error. If the control or error is not
present, null is returned.
```
this._cd.control.pending : false; }\n}\n\nexport const ngControlStatusHost = {\n '[class.ng-untouched]':
'ngClassUntouched',\n '[class.ng-touched]': 'ngClassTouched',\n '[class.ng-pristine]': 'ngClassPristine',\n '[class.ngdirty]': 'ngClassDirty',\n '[class.ng-valid]': 'ngClassValid',\n '[class.ng-invalid]': 'ngClassInvalid',\n '[class.ngpending]': 'ngClassPending',\n};\n\n/**\n * @description\n * Directive automatically applied to Angular form
controls that sets CSS classes\n * based on control status.\n *\n * @usageNotes\n *\n * ### CSS classes applied\n
*\n * The following classes are applied as the properties become true:\n *\n * * ng-valid\n * * ng-invalid\n * * ngpending\n * * ng-pristine\n * * ng-dirty\n * * ng-untouched\n * * ng-touched\n *\n * @ngModule
ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({selector:
'[formControlName],[ngModel],[formControl]', host: ngControlStatusHost})\nexport class NgControlStatus extends
AbstractControlStatus {\n constructor(@Self() cd: NgControl) { super(cd); }\n}\n\n/**\n * @description\n *
Directive automatically applied to Angular form groups that sets CSS classes\n * based on control status
(valid/invalid/dirty/etc).\n * \n * @see `NgControlStatus`\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',\n host:
ngControlStatusHost\n})\nexport class NgControlStatusGroup extends AbstractControlStatus {\n
constructor(@Self() cd: ControlContainer) { super(cd); }\n}\n","/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {InjectionToken, ÉµisObservable as isObservable,
ÉµisPromise as isPromise} from '@angular/core';\nimport {Observable, forkJoin, from} from 'rxjs';\nimport {map}
from 'rxjs/operators';\nimport {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from
'./directives/validators';\nimport {AbstractControl, FormControl} from './model';\n\nfunction
isEmptyInputValue(value: any): boolean {\n // we don't check for string here so it also works with arrays\n return
value == null || value.length === 0;\n}\n\n/**\n * @description\n * An `InjectionToken` for registering additional
synchronous validators used with `AbstractControl`s.\n *\n * @see `NG_ASYNC_VALIDATORS`\n *\n *
@usageNotes\n *\n * ### Providing a custom validator\n *\n * The following example registers a custom validator
directive. Adding the validator to the\n * existing collection of validators requires the `multi: true` option.\n *\n *
```typescript\n * @Directive({\n * selector: '[customValidator]',\n * providers: [{provide: NG_VALIDATORS,
useExisting: CustomValidatorDirective, multi: true}]\n * })\n * class CustomValidatorDirective implements
Validator {\n * validate(control: AbstractControl): ValidationErrors | null {\n * return { 'custom': true };\n * }\n
* }\n * ```\n *\n * @publicApi\n */\nexport const NG_VALIDATORS = new
InjectionToken<Array<Validator|Function>>('NgValidators');\n\n/**\n * @description\n * An `InjectionToken` for
registering additional asynchronous validators used with `AbstractControl`s.\n *\n * @see `NG_VALIDATORS`\n
*\n * @publicApi\n */\nexport const NG_ASYNC_VALIDATORS =\n new
InjectionToken<Array<Validator|Function>>('NgAsyncValidators');\n\n/**\n * A regular expression that matches
valid e-mail addresses.\n *\n * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
where:\n * - `local-part` consists of one or more of the allowed characters (alphanumeric and some\n * punctuation
symbols).\n * - `local-part` cannot begin or end with a period (`.`).\n * - `local-part` cannot be longer than 64
characters.\n * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or\n *
`foo.com`.\n * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and\n *
periods (`.`)).\n * - A `label` cannot begin or end with a dash (`-`) or a period (`.`).\n * - A `label` cannot be longer
than 63 characters.\n * - The whole address cannot be longer than 254 characters.\n *\n * ## Implementation
background\n *\n * This regexp was ported over from AngularJS (see there for git history):\n *
https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27\n * It is based on the\n *
[WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with\n * some
enhancements to incorporate more RFC rules (such as rules related to domain names and the\n * lengths of different
parts of the address). The main differences from the WHATWG version are:\n * - Disallow `local-part` to begin or
end with a period (`.`).\n * - Disallow `local-part` length to exceed 64 characters.\n * - Disallow total address
length to exceed 254 characters.\n *\n * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e)

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for more details.

```javascript
/**
 * @description
 * Provides a set of built-in validators that can be used by form controls.
 * A validator is a function that processes a `FormControl` or collection of
 * controls and returns an error map or null. A null map means that validation has passed.

 * The validator exists only as a function and not as a directive.
 * Validates against a minimum of 3
 * ```typescript``` const control = new FormControl(2, Validators.min(3));

 * The validator exists only as a function and not as a directive.
 * Validates against a maximum of 15
 * ```typescript``` const control = new FormControl(16, Validators.max(15));

 * Validates that the control's value pass an email validation test.
 * Tests the value using a regular expression suitable for common usecases. The pattern is based on the definition of a valid email
 * address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
 * with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths
 * of different parts of the address).

 * The differences from the WHATWG version include:
 * - Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
 * - Disallow `local-part` to be longer than 64 characters.
 * - Disallow email validation test.
 * pattern suitable for common usecases. The pattern is based on the definition of a valid email
 * address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
 * with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths
 * of different parts of the address).

 * If this
```
pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

* `* const control = new FormControl('bad@', Validators.email);
* null * @see `updateValueAndValidity()`
* if the validation check fails, otherwise `null`.

* `* `updateValueAndValidity()`
* static email(abstractControl: ValidationErrors|null) {
* null if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls

* `* `updateValueAndValidity()`
* static maxLength(maxLength: number): ValidatorFn {
* return (control: AbstractControl): ValidationErrors | null => {
* if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls

* `* `updateValueAndValidity()`
* static minLength(minLength: number): ValidatorFn {
* return (control: AbstractControl): ValidationErrors | null => {
* if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls

* `* `updateValueAndValidity()`
* static email(abstractControl: ValidationErrors|null) {
* null if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls

* `* `updateValueAndValidity()`
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* return (control: AbstractControl): ValidationErrors | null => {
* if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls

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* if (isEmptyInputValue(control.value)) {
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* `* `updateValueAndValidity()`
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* return null; // don't validate empty values to allow optional controls

* `* `updateValueAndValidity()`
* static maxLength(maxLength: number): ValidatorFn {
* return (control: AbstractControl): ValidationErrors | null => {
* if (isEmptyInputValue(control.value)) {
* return null; // don't validate empty values to allow optional controls
union
  * of the individual error maps for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the validators if the validation check fails, otherwise
  * `null`.
  *
  * @see `updateValueAndValidity()`
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the validators if the validation check fails, otherwise
  * `null`.
  *
  * @description
  * Compose multiple async validators into a single function that returns the
  * union
  * of the individual error objects for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the async validators if the validation check fails, otherwise
  * `null`.
  *
  * @description
  * Compose multiple async validators into a single function that returns the
  * union
  * of the individual error objects for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the async validators if the validation check fails, otherwise
  * `null`.
  *
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  * of the individual error objects for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the async validators if the validation check fails, otherwise
  * `null`.
  *
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  * union
  * of the individual error objects for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the async validators if the validation check fails, otherwise
  * `null`.
  *
  * @description
  * Compose multiple async validators into a single function that returns the
  * union
  * of the individual error objects for the provided control.
  *
  * @returns A validator function that
  * returns an error map with the
  * merged error maps of the async validators if the validation check fails, otherwise
  * `null`.
  *
  * @description
  * Compose multiple async validators into a single function that returns the
implements ControlValueAccessor {
  /**
   * The registered callback function called when a change or input event occurs on the input.
   */
  onChange = (_: any) => {};

  /**
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "value" property on the input element.
   */
  writeValue(value: number): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

/**
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 */

import {Directive, ElementRef, Injectable, Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 *
 * For example, a form with two radio buttons may be written as:
 *
 * ```
 * @FormBuilder
 * this.form.group = { radio: new RadioControlValueAccessor() }
 * ```
 *
 * In this example, `RadioControlValueAccessor` is added to the form group with the `<FormControl>` directive.
 * For a more detailed example, see the `reactiveRadioButtons` example.
 *
 * @usageNotes
 *
 * ### Using radio buttons in a reactive form
 *
 * In a reactive form, radio buttons in the same group should have the same `formControlName`.
 *
 * ```
```
of the radio input element.

/*!
 * @Input() name !: string; // Tracks the name of the 'FormControl' bound to the directive. The name corresponds to a key in the parent 'FormGroup' or 'FormArray'.
 * @description
 * Sets the value of the radio input element
 */

@Input() formControlName !: string;

/**
 * @description
 * Tracks the value of the radio input element
 */
@Input() value: any;

constructor(private _renderer: Renderer2, private _elementRef: ElementRef,
private _registry: RadioControlRegistry, private _injector: Injector) {

/**
 * @description
 * Lifecycle method called when the directive is initialized. For internal use only.
 * @ngOnDestroy(): void {
 * @description
 * Registers a function called when the control value changes
 */

writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked',
this._state);
}

/**
 * Sets the "disabled" property on the input element
 */
setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

private _checkName(): void {
    if (this.name && this.formControlName &&
this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name &&
this.formControlName) this.name = this.formControlName;
}

private _throwNameError(): void {
    throw new Error(`
      If you define both a name and a formControlName attribute on your radio button, their values
must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
}

/**
 * The registered callback function called when a change or input event occurs on the input element.
 */
registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
}

/**
 * Sets the "checked" property on the radio input element and unchecks it.
 */
fireUncheck(value: any): void {
this.writeValue(value);
}

/**
 * Registers a function called when a blur event occurs on the input element.
 */
setOnTouched(fn: () => {}): void {
this.onTouched = fn;
}

/**
 * Sets the "disabled" property on the input element
 */
setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

private _checkName(): void {
    if (this.name && this.formControlName &&
this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name &&
this.formControlName) this.name = this.formControlName;
}

private _throwNameError(): void {
    throw new Error(`
      If you define both a name and a formControlName attribute on your radio button, their values
must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
}
{\n  this.onChange = (value) => { fn(value === "" ? null : parseFloat(value)); }\n}/**\n * @description\n * Registers a function called when the control is touched.\n * @param fn The callback function\n *\n registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n*/\n
/**\n * @description\n *\n * @param fn The callback function\n */\n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }

/**\n * @description\n *\n * @param isDisabled The disabled value\n */\n
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

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export const FormErrorExamples = {
  formControlName: `
    <div 
        [formGroup]="myGroup">
      
      <input 
          formControlName="firstName">
      </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
      firstName: new FormControl()
    });

  formGroupName: `
    <div 
        [formGroup]="myGroup">
      
      <div 
          formGroupName="person">
          <input 
              formControlName="firstName">
      </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
      person: new FormControl({ first: new FormControl()
    });

  formArrayName: `
    <div 
        [formGroup]="myGroup">
      
      <div 
          formArrayName="cities">
        
        <div *ngFor="let city of cityArray.controls; index as i">
          <input 
              [formControlName]="i">
        </div>
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });

  ngModelGroup: `
    <form>
      
      <div ngModelGroup="person">
        
        <input 
            [(ngModel)]="person.name"
            name="firstName">
      </div>
    </form>`,

  ngModelWithFormGroup: `
    <div 
        [formGroup]="myGroup">
      
      <input 
          [(ngModel)]="showMoreControls" 
          [ngModelOptions]="{standalone: true}">
    </div>
  `
};

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import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

```javascript
{Examples.formControlName}```

 static ngModelGroupException(): void {
    throw new Error(`formGroupName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup. Option 1: Update the parent to be formGroupName (reactive form strategy)`

```javascript
{Examples.formGroupName}```

 static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class)

Example:

```javascript
{Examples.formGroupName}```

 static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class)

Example:

```javascript
{Examples.formGroupName}```

 static disabledAttrWarning(): void {
    console.warn(`It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

Example: form = new FormControl({ value: 'Nancy', disabled: true }, Validators.required);
```

 last: new

 FormControl('Drew', Validators.required)
 )
 ```

 static ngModelWarning(directiveName: string): void {
    console.warn(`It looks like you're using ngModel on the same form field as ${directiveName}.`)

 Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.

 For more information on this, see our API docs here:

https://angular.io/api/forms/${directiveName} === 'formControl' ? 'FormControlDirective' :`
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---

**FormControlName**

```typescript
@Directive({
  selector:
    `select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]`,
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking identities when
   * checking for changes.
   */
  @Input()
  set compareWith(fn: (o1: any, o2: any) => boolean)
  { if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received
    ${typeof fn}`).
  }
  this._compareWith = fn;
  }

  private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "value" property on the input element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any)
  { this._optionMap.clear();
    this._idCounter = 0;
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  onTouched() {
    if (this.value && typeof this.value === 'object')
    this.value = JSON.stringify(this.value);
    const id: string|null = this._getOptionId(this.value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, this.value);
    if (this.value && this.value.constructor===null)
    this.value = value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }
```

---

**ControlValueAccessor**

```typescript
@Directive({
  selector: `select:not([multiple])[formControl],select:not([multiple])[ngModel],select:not([multiple])[formControlName]`,
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking identities when
   * checking for changes.
   */
  @Input()
  set compareWith(fn: (o1: any, o2: any) => boolean)
  { if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received
    ${typeof fn}`).
  }
  this._compareWith = fn;
  }

  private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "value" property on the input element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any)
  { this._optionMap.clear();
    this._idCounter = 0;
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, this.value);
    if (this.value && this.value.constructor===null)
    this.value = value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  onTouched() {
    if (this.value && typeof this.value === 'object')
    this.value = JSON.stringify(this.value);
    const id: string|null = this._getOptionId(this.value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, this.value);
    if (this.value && this.value.constructor===null)
    this.value = value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }
```
### SelectFormControlValueAccessor

#### overview

The `SelectFormControlValueAccessor` is used to handle multi-select controls in Angular. It provides methods for registering change and touch callbacks, setting disabled state, and managing option values. The accessor is used by directives like `FormControlDirective`, `FormControlName`, and `NgModel` to handle multi-select inputs.

#### lifecycle methods

- `registerOnChange(fn: (value: any) => any): void` registers a function to be called when the control value changes.
- `registerOnTouched(fn: () => any): void` registers a function to be called when the control is touched.
- `setDisabledState(isDisabled: boolean): void` sets the disabled state of the control.
- `_registerOption(): string` registers a new option id.
- `_getOptionId(value: any): string | null` gets the id of an option based on its value.
- `_getOptionValue(valueString: string): any` extracts the value of an option from its string representation.

#### example

```ts
const countries = ['US', 'CA', 'MX'];

const formControl = new FormControl(countries);

<form>
  <select multiple name="countries" [formControl]="formControl">
    <option *ngFor="let country of countries" [ngValue]="country">
      {{ country }}
    </option>
  </select>
</form>
```

This example shows a multi-select control bound to the `countries` array. The `formControl` is of type `FormControl`, which is a reactive form control used in Angular forms.
input.

* See the `SelectControlValueAccessor` for usage.

```javascript
/* @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '
    select[multiple][formControlName], select[multiple][formControl]
    [ngModel]
  ',
  host: {
    'onChange': 'onChange($event.target)',
    'blur': 'onTouched()'
  },
  providers: {
    SELECT_MULTIPLE_VALUE_ACCESSOR: []
  }
})
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The current value
   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();

  /**
   * @description
   * Tracks the option comparison algorithm for tracking identities when
   * checking for changes.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Sets the "value" property on one or more of the select's options.
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (_: any) => {
      const selected = [];
      if (_.hasOwnProperty('selectedOptions')) {
        const options = _.selectedOptions;
        for (let i = 0; i < options.length; i++) {
          const opt = options.item(i);
          const val = this._getOptionValue(opt.value);
          selected.push(val);
        }
      } else {
        const options = Array.from(this._optionMap.keys());
        for (const id of options) {
          if (this._compareWith(this._optionMap.get(id)!.value, value)) {
            selected.push(id);
          }
        }
      }
      this.value = selected;
      fn(selected);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * @description
   * Sets the "disabled" property on the select input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(value: ɵNgSelectMultipleOption): string {
    const id = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
  }

  /** @internal */
  _getOptionId(value: any): string | null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id)!.value, value)) {
        return id;
      }
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id)!.value : valueString;
  }
}

/**
 * @description
 * Marks `option` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: 'option'
})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove '!'.
  id!: string;
  /**
   * @internal */
  _value: any;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef, @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option element. Unlike the value binding,
   * ngValue supports binding to objects.
   */
  @Input('ngValue')
  set
```
ngValue(value: any) {

  if (this._select == null) return;
  this._value = value;

  this._setElementValue(this._buildValueString(this.id, value));
  this._select.writeValue(this._select.value);
}

/**
 * @description
 * Tracks simple string values bound to the option element.
 * For objects, use the `ngValue` input binding.
 */
@Input('value')
set value(value: any) {
  if (this._select) {
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  } else {
    this._setElementValue(value);
  }
}

/**
 * @internal */
_setElementValue(value: string): void {
  this._renderer.setProperty(this._element.nativeElement, 'value', value);
}

/** @internal */
_setSelected(selected: boolean) {
  this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
}

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
ngOnDestroy(): void {

  if (this._select) {
    this._select.writeValue(this._select.value);
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};
NgControl): void {dir.valueAccessor!.registerOnChange((newValue: any) => {
  control._pendingValue = newValue;
  control._pendingChange = true;
  control._pendingDirty = true;
  if (control.updateOn === 'change') updateControl(control, dir);
});
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => {
    control._pendingTouched = true;

    if (control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
  control._pendingChange = false;
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor!.writeValue(newValue);
    // control -> ngModel
    if (emitModelEvent) dir.viewToModelUpdate(newValue);
  });
}

export function setUpFormContainer(
    control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RangeValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

// TODO: vsavkin remove it once
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      builtInAccessor = v;
    } else {
      if (isBuiltInAccessor(v)) builtInAccessorn = v;
    }
  });
  return defaultAccessor || builtInAccessorn || null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

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// TODO(kara): remove after deprecation period

export function _ngModelWarning(name: string, type: { _ngModelWarningSentOnce: boolean }, warningConfig: string | null) {
  if (isDevMode()) warningConfig === 'never') return;
  if (((warningConfig === null || warningConfig === 'once')) && !_type._ngModelWarningSentOnce) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and
 * errors are not yet available for the input value.
 * @see `markAsPending`
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor
 * calculations of validity or value.
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string | number> | string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  let controlToFind: AbstractControl | null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn | null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
      (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn[] | null;
  return Array.isArray(validator) ? composeValidators(validator) : validator || null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn | null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
      (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn[] | null;
  return Array.isArray(origAsyncValidator) ?
      composeAsyncValidators(validatorOrOpts) : origAsyncValidator ||
      null;
}

function isOptionsObj(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
      !Array.isArray(validatorOrOpts) &&
      typeof validatorOrOpts === 'object';
}

1):\n
*/

function export function _ngModelWarning(name: string, type: { _ngModelWarningSentOnce: boolean }, warningConfig: string | null) {
  if (isDevMode()) warningConfig === 'never') return;
  if (((warningConfig === null || warningConfig === 'once')) && !_type._ngModelWarningSentOnce) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and
 * errors are not yet available for the input value.
 * @see `markAsPending`
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor
 * calculations of validity or value.
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string | number> | string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  let controlToFind: AbstractControl | null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn | null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
      (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn[] | null;
  return Array.isArray(validator) ? composeValidators(validator) : validator || null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn | null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
      (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn[] | null;
  return Array.isArray(origAsyncValidator) ?
      composeAsyncValidators(validatorOrOpts) : origAsyncValidator ||
      null;
}

function isOptionsObj(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
      !Array.isArray(validatorOrOpts) &&
      typeof validatorOrOpts === 'object';
}
@see [Dynamic Forms Guide](guide/dynamic-form)

```typescript
/** @publicApi */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn !: FormHooks;

  // TODO(issue/24571): remove '!'.
  private _parent !: FormGroup | FormArray;

  /**
   * The current value of the control.
   * For an enabled 'FormGroup', the values of enabled controls as an object
   * with a key-value pair for each member of the group.
   * For a disabled 'FormGroup', the values of all controls as an object
   * with a key-value pair for each member of the group.
   * For a 'FormArray', the values of enabled controls as an array.
   * Public readonly value: any
   * Initialize the AbstractControl instance.
   * @param ValidatorFn
   * @param AsyncValidatorFn
   */
  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

  /**
   * A multicasting observable that emits an event every time the
   * value of the control changes, in the UI or
   * programmatically. It also emits an event each time you call enable() or disable()
   * without passing along
   */
  valueChanges !: Observable<any>;

  /**
   * A multicasting observable that emits an event every time the
   * value of the control changes, in the UI or
   * programmatically.
   * It also emits an event each time you call enable() or disable()
   * without passing along
   * emitEvent: false as a function argument.
   */
  public readonly valueChanges!: Observable<any>;

  /**
   * True if the control is marked as 'touched'.
   * A control is marked 'touched' once the user has triggered
   * a 'blur' event on it.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as 'untouched'.
   * A control is 'untouched' if the user has not yet triggered
   * a 'blur' event on it.
   */
  public readonly untouched: boolean = true;

  /**
   * True if the control has passed all its validation checks.
   * Status values are mutually exclusive, so a control cannot be
   * both valid AND invalid or invalid AND disabled.
   */
  public readonly status!: string;

  /**
   * True if the user has not yet changed the value in the UI.
   * Compare 'dirty'.
   */
  public readonly pristine: boolean = true;

  /**
   * True if the user has not yet changed the value in the UI; compare 'dirty'.
   * Programmatic changes to a control's value do not mark it dirty.
   */
  public readonly dirty: boolean = false;

  /**
   * True if the control is `touched`.
   * A control is marked 'touched' once the user has triggered
   * a 'blur' event on it.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as 'untouched'.
   * A control is 'untouched' if the user has not yet triggered
   * a 'blur' event on it.
   */
  public readonly untouched: boolean = true;

  /**
   * An object containing any errors generated by failing validation.
   * Or null if there are no errors.
   */
  public readonly errors!: ValidationErrors | null;

  /**
   * True if the control is enabled.
   */
  public readonly enabled: boolean = true;

  /**
   * True if the control is disabled.
   */
  public readonly disabled: boolean = false;

  /**
   * True if the control is marked as `touched`.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as `untouched`.
   */
  public readonly untouched: boolean = true;

  /**
   * A control is `touched` once the user has triggered
   * a 'blur' event on it.
   */
  public readonly touched: boolean = false;

  /**
   * A control is `untouched` if the user has not yet triggered
   * a 'blur' event on it.
   */
  public readonly untouched: boolean = true;

  /**
   * An object containing any errors generated by failing validation.
   * Or null if there are no errors.
   */
  public readonly errors!: ValidationErrors | null;

  /**
   * True if the control is `touched`.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as `untouched`.
   */
  public readonly untouched: boolean = true;

  /**
   * A multicasting observable that emits an event every time the value of the control changes.
   * It also emits an event each time you call enable() or disable()
   * without passing along
   * emitEvent: false as a function argument.
   */
  public readonly valueChanges!: Observable<any>;

  /**
   * True if the control is `touched`.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as `untouched`.
   */
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   * It also emits an event each time you call enable() or disable()
   * without passing along
   * emitEvent: false as a function argument.
   */
  public readonly valueChanges!: Observable<any>;

  /**
   * True if the control is `touched`.
   */
  public readonly touched: boolean = false;

  /**
   * True if the control has not been marked as `untouched`.
   */
  public readonly untouched: boolean = true;

  /**
   * A multicasting observable that emits an event every time the
   * value of the control changes.
   * It also emits an event each time you call enable() or disable()
   * without passing along
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   * It also emits an event each time you call enable() or disable()
   * without passing along
   * emitEvent: false as a function argument.
   */
  public readonly valueChanges!: Observable<any>;
validation 'status' of the control
   * recalculates.
   *
   * @see {@link AbstractControl.status}
   *
   * Sets the synchronous validators that are active on this control. Calling this
   * overwrites any existing sync validators.
   *
   * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new
   * validation to take effect.
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   * validation to take effect.
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   * validation to take effect.
   *
   * `updateOn`:
   * Possible values: `change` | `blur` | `submit`
   * Default value: `change`
   * @param {FormHooks} {this.parent}?
   * @param {string} `change`?
   *
   * `setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]): void`;
   *
   * `clearAsyncValidators(): void`;
   *
   * `markAsTouched(opts: {onlySelf?: boolean} = {}): void`;
   *
   * `markAllAsTouched(): void`;
   *
   * `markAsUntouched(opts: {onlySelf?: boolean} = {}): void`;
   *
   * `markAsDirty(opts: {onlySelf?: boolean} = {}): void`;
   *
   * `markAsPristine(opts: {onlySelf?: boolean} = {}): void`;
   *
   * `markAsTouched(); void`;
   *
   * `markAllAsTouched(); void`;
   *
   * `markAsUntouched(); void`;
   *
   * `markAsDirty(); void`;
   *
   * `markAsPristine(); void`;
   *
   * `this.markAsTouched; void`;
   *
   * `this.markAllAsTouched; void`;
   *
   * `this.markAsUntouched; void`;
   *
   * `this.markAsDirty; void`;
   *
   * `this.markAsPristine; void`;
   *
   * `this._parent.markAsTouched; void`;
   *
   * `this._parent.markAllAsTouched; void`;
   *
   * `this._parent.markAsUntouched; void`;
   *
   * `this._parent.markAsDirty; void`;
   *
   * `this._parent.markAsPristine; void`;
   *
   * `this._forEachChild; void`
   * 
   * `this._pendingTouched; void`;
   *
   * `this._pendingDirty; void`;
   *
   * `this._updateTouched; void`;
   *
   * `this._updateDirty; void`;
   *
control.markAsPristine({onlySelf: true}); });\n
if (this._parent && !opts.onlySelf) {\n  this._parent._updatePristine(opts);\n}\n\n/**\n* Marks the control as 'pending'.\n* A control is pending while the control performs async validation.\n* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.\n* @param onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n* emitEvent: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending.\n* When false, no events are emitted.\n* @param markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    (this as {status: string}).status = PENDING;\n    if (opts.emitEvent !== false) {\n      (this.statusChanges as EventEmitter<any>).emit(this.status);\n    }\n  }\n
/**\n* Disables the control. This means the control is exempt from validation checks and excluded from the aggregate value of any parent. Its status is 'DISABLED'.\n* If the control has children, all children are also disabled.\n* @param opts Configuration options that determine how the control propagates changes and emits events after the control is disabled.\n* onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n* emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.\n* When false, no events are emitted.\n* disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    (this as {status: string}).status = DISABLED;\n    (this as {errors: ValidationErrors | null}).errors = null;\n    this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });\n    this._updateValue();\n    if (opts.emitEvent !== false) {\n      (this.valueChanges as EventEmitter<any>).emit(this.value);\n      (this.statusChanges as EventEmitter<string>).emit(this.status);\n    }\n  }\n
/**\n* Enables the control. This means the control is included in validation checks and the aggregate value of its parent. Its status recalculates based on its value and its validators.\n* By default, if the control has children, all children are enabled.\n* @param opts Configure options that control how the control propagates changes and emits events when marked as untouched.\n* onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n* emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.\n* When false, no events are emitted.\n* enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    (this as {status: string}).status = VALID;\n    this._forEachChild((control: AbstractControl) => {\n      control.enable({...opts, onlySelf: true}); });\n    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n    this._updateAncestors({...opts, skipPristineCheck});\n  }\n
private _updateValue(): void {\n  if (opts.emitEvent !== false) {\n    (this.valueChanges as EventEmitter<any>).emit(this.value);\n    (this.statusChanges as EventEmitter<string>).emit(this.status);\n  }\n}
the value and validity of its ancestors.

```typescript
* @param opts Configuration options determine how the control propagates changes and emits events
* after updates and validity checks are applied.
* * `onlySelf`: When true, only update this control. When false or not supplied, update all direct ancestors. Default is false.
* * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated. When false, no events are emitted.

```typescript
updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._setInitialStatus();
  this._updateValue();

  if (this.enabled) {
    this._cancelExistingSubscription();
    (this as{errors: ValidationErrors | null}).errors = this._runValidator();
    (this as{status: string}).status = this._calculateStatus();

    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(opts.emitEvent);
    }
  }

  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }

  if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
  }
}
```

```typescript
updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
}
```

```typescript
_setInitialStatus() {
  (this as{status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
}
```

```typescript
_runValidator(): ValidationErrors|null {
  return this.validator ? this.validator(this) : null;
}
```

```typescript
_runAsyncValidator(emitEvent?: boolean): void {
  if (this.asyncValidator) {
    (this as{status: string}).status = PENDING;
    const obs = toObservable(this.asyncValidator(this));
    this._asyncValidationSubscription = obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));
  }
}
```

```typescript
_cancelExistingSubscription(): void {
  if (this._asyncValidationSubscription) {
    this._asyncValidationSubscription.unsubscribe();
  }
}
```

** @internal */

```typescript
forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));
```

** @param path A dot-delimited string or array of string/number values that define the path to the control.
** @param path A dot-delimited string or array of string/number values that define the path to the control.
```typescript
get(path: Array<string|number>|string): AbstractControl|null { return _find(this, path, '.'); }
```

```typescript
getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}
```

** @description
** Reports error data for the control with the given path.
** For example, to get a `name` control nested within a `person` sub-group:
```typescript
getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}
```

```typescript
getOrElseformulario: { street: new FormControl() });
```

** @description
** Reports whether the control with the given path has the error specified.
** For example, for the following `FormControl`:
```typescript
getOrElseformulario: { street: new FormControl() });
```

```typescript
return _find(this, path, '.');
```

** @description
** Reports error data for the control with the given path.
** For example, to get a `name` control nested within a `person` sub-group:
```typescript
return _find(this, path, '.');
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** @description
** Reports error data for the control with the given path.
** For example, to get a `name` control nested within a `person` sub-group:
```typescript
return _find(this, path, '.');
```
The path to the 'street' control from the root form would be 'address' -> 'street'.

If no path is given, this method checks for the error on the current control.

The following example initializes the control with a form state object. The 'value' and 'disabled' keys are required in this case.

```javascript
const control = new FormControl({ value: 'n/a', disabled: true });
```
options.object.

```ts
const control = new FormControl('', { validators: Validators.required, asyncValidators: myAsyncValidator });
```

```ts
asyncValidators: myAsyncValidator()
```

```ts
const control = new FormControl({ updateOn: 'blur' });
```

```ts
const control = new FormControl({ updateOn: 'submit' });
```

```ts
reset({ value: 'Drew', disabled: true });
```

```ts
reset({ value: 'Drew', disabled: true });
```

```ts
const control = new FormControl('Nancy');

console.log(control.value); // 'Nancy'

control.reset('Drew');

console.log(control.value); // 'Drew'

```

```ts
const control = new FormControl('Nancy');

console.log(control.value); // 'Nancy'

console.log(control.status); // 'VALID'

control.reset({ value: 'Drew', disabled: true });

console.log(control.value); // 'Drew'

```

See the `updateOn` option to update on a submit event.

Set the `updateOn` option to `'blur'` to update on the blur event.

Set the `updateOn` option to `'submit'` to update on a submit event.

Reset the control back to an initial value.

You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state (these are the only two properties that cannot be calculated).

Set the `updateOn` option to `'blur'` to update on the blur event.

Set the `updateOn` option to `'submit'` to update on a submit event.

Reset the control back to an initial value and disabled.

The configuration options are passed to the `AbstractControl` instance.

`@param formState` Initializes the control with an initial value, or an object that defines the initial value and disabled state.

`@param validatorOrOpts` A synchronous validator or array of validators or `AbstractControlOptions` object that contains validation functions and a validation trigger.

`@param asyncValidator` A single async validator or array of async validators.

### Reset the control back to an initial value and disabled

```ts
const control = new FormControl('Nancy');

control.reset({ value: 'Drew', disabled: true });
```

### Configure the control to update on a blur event

```ts
const control = new FormControl('', {
validators: Validators.required,
asyncValidators: myAsyncValidator
});
```

### Configure the control to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Configure the control to update on a blur event

```ts
const control = new FormControl({ updateOn: 'blur' });
```

### Configure the control to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Reset the control back to an initial value

```ts
const control = new FormControl('Nancy');

control.reset('Drew');
```

### Reset the control back to an initial value and disabled

```ts
const control = new FormControl('Nancy');

control.reset({ value: 'Drew', disabled: true });
```

### Configure the control to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Configure the control to update on a blur event

```ts
const control = new FormControl({ updateOn: 'blur' });
```
parent. Default is `false`. When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset. When false, no events are emitted. The `reset` constructor argument is optional.

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset. When false, no events are emitted.

```typescript
reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(this.value, options);
    this._pendingChange = false;
}
```

```typescript
/**
 * @internal
 */
reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(this.value, options);
    this._pendingChange = false;
}
```

```typescript
/**
 * @internal
 */
markAsPristine(options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._isPristine = true;
    this._isDirty = false;
    this._isTouched = false;
    this._pendingChange = false;
}
```

```typescript
/**
 * @internal
 */
markAsUntouched(options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._isTouched = false;
    this._pendingTouched = false;
}
```

```typescript
/**
 * Register a listener for change events.
 * @param fn The method that is called when the value changes.
 * @memberof FormGroup
 */
registerOnChange(fn: Function): void {
    this._onChange.push(fn);
}
```

```typescript
/**
 * Register a listener for disabled events.
 * @param fn The method that is called when the disabled status changes.
 * @memberof FormGroup
 */
registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
    this._onDisabledChange.push(fn);
}
```

```typescript
/**
 * @internal
 */
_syncPendingControls(): boolean {
    if (this.updateOn === 'submit') {
        if (this._pendingDirty) this.markAsDirty();
        if (this._pendingTouched) this.markAsTouched();
        if (this._pendingChange) {
            this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange: false});
            return true;
        }
    }
    return false;
}
```

```typescript
/**
 * @internal
 */
_applyFormState(formState: any) {
    if (this._isBoxedValue(formState)) {
        (this as {value: any}).value = this._pendingValue = formState.value;
    } else {
        (this as {value: any}).value = this._pendingValue = formState;
    }
}
```

```typescript
/**
 * Creates a new `FormGroup` instance.
 * @param controls A collection of child controls. The key for each child is the name
 * under which it is registered.
 * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an
 * `AbstractControlOptions` object that contains validation functions and a validation trigger.
 * @param asyncValidator A single async validator or array of async validator functions
 * @param options An `AbstractControlOptions` object that contains a validation trigger.
 * @memberof FormGroup
 */
constructor(
    public
controls {[key: string]: AbstractControl},
validatorOrOpts?: ValidatorFn|ValidatorFn[],AbstractControlOptions|null,
asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[],
{ new super
  coerceToValidator(validatorOrOpts),
  coercetoAsyncValidator(asyncValidator, validatorOrOpts));
this._initObservables();
this._setUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf:
true, emitEvent: false});
}
/**
 * Registers a control with the group's list of controls.
 * @param name The control name to register in the collection
 * @param control Provides the control for the given name
 * @returns The control name to add to the collection
 * @param control Provides the control for the given name
 * addControl(name: string, control: AbstractControl): void {
  this.registerControl(name, control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}
removeControl(name: string): void {
  if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
  delete this.controls[name];
  this.updateValueAndValidity();
  this._onCollectionChange();
}
setControl(name: string, control: AbstractControl): void {
  if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
  delete this.controls[name];
  if (control) this.registerControl(name, control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}
contains(controlName: string): boolean {
  return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}
setValue(value: {[key: string]: any},
  options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  Object.keys(value).forEach(name => {
    this._throwIfControlMissing(name);
    this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}
patchValue(value: {[key: string]: any},
  options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  if (control) this.registerControl(name, control);
  this.updateValueAndValidity(options);
  if (options['onlySelf']) return;
  this.controls[name] = control;
  control.setParent(this);
  control._registerOnCollectionChange(this._onCollectionChange);
  this.controls[name].setValue(value,
    {onlySelf: true, emitEvent: options.emitEvent});
  this.updateValueAndValidity({onlySelf: true, emitEvent: options.emitEvent});
  this._onCollectionChange();
}
statusChangesAndValueChanges
  observables emit events with the latest status and value when the
  control value is updated.
  * When false, no events are emitted.
  * setValue(value: {[key: string]: any},
    options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(name => {
      this._throwIfControlMissing(name);
      this.controls[name].setValue(value[name],
        {onlySelf: true, emitEvent: options.emitEvent});
    });
    this.updateValueAndValidity(options);
  }
  const form = new FormGroup(
    {first: new FormControl(), last: new FormControl()});
  console.log(form.value);
  // {first: null, last: null}
  form.setValue(form.value);
  // {first: null, last: null}
  form.patchValue(form.value);
  // {first: null, last: null}
  form.statusChangesAndValueChanges;
  * @throws When strict checks fail, such as setting the value of a control
    * that doesn't exist or if you exclude a value of a control that does exist.
  * @param name The new value for the control that matches the structure of the group
  * @param options Configuration options that determine how the control propagates changes
    * and emits events after the value changes.
  * @usageNotes
  * The configuration options are passed to the {}
  * the `FormGroup` method.
  * *onlySelf*: When true, each change only affects this control, and not
    * its parent. Default is
  * *false*. *emitEvent*: When true or not supplied (the default), both the
    * `statusChanges` and` valueChanges` observables emit events with the latest status and value when the
    * control value is updated.
  * * When false, no events are emitted.
  * setValue(value: {[key: string]: any},
    options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(name => {
      this._throwIfControlMissing(name);
      this.controls[name].setValue(value[name],
        {onlySelf: true, emitEvent: options.emitEvent});
    });
    this.updateValueAndValidity(options);
  }
  const form = new FormGroup(
    {first: new FormControl(), last: new FormControl()});
  console.log(form.value);
  // {first: null, last: null}
* form.patchValue({first: 'Nancy'}); 
* console.log(form.value);  // {first: 'Nancy', last: null} 
* 
* @param value The object that matches the structure of the group. 
* @param options Configuration options that determine how the control propagates changes and emits events after the value is patched. 
* *
* onlySelf": When true, each change only affects this control and not its parent. Default is true. 
* `* `emitEvent": When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
* When false, no events are emitted. 
* 
* The configuration options are passed to the [link AbstractControl#updateValueAndValidity method].
* patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void 
* 
* this.updateValueAndValidity(options); 
*/

```ts
form.get('first').status;  // 'DISABLED'
```
_anyControls(condition: Function): boolean {
    let res = false;
    this._forEachChild((control: AbstractControl, name: string) => {
      res = res || (this.contains(name) && condition(control));
    });
    return res;
  }

/**
 *Tracks the value and validity state of an array of `FormControl`, `FormGroup` or `FormArray` instances.
 *A `FormArray` aggregates the values of each child `FormControl` into an array.
 *It calculates its status by reducing the status values of its children. For example, if one of
 *the controls in a `FormArray` is invalid, the entire array becomes invalid.

 * `FormArray` is one of the three fundamental building blocks used to define forms in Angular:
 * along with `FormControl` and `FormGroup`.

 * `FormArray` extends `AbstractControl` and contains a `FormArray` object that defines methods
 * for `FormArray` objects.

 * `FormArray` objects are used to create form arrays in Angular.

 * @param controls An array of child controls. Each child control is given an index
 * where it is registered.
 * @param validatorOrOpts A synchronous validator function, or an array of
 * such functions, or an `AbstractControlOptions` object that contains validation functions
 * and a validation trigger.
 * @param asyncValidator A single async validator or array of async validator functions
 * for this `FormArray` instance.

 * @publicApi
 */
export class FormArray extends AbstractControl {
  constructor(
      public controls: AbstractControl[],
      validatorOrOpts?: ValidatorFn|ValidatorFn[],
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpdateStrategy(validatorOrOpts);
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  at(index: number): AbstractControl { return this.controls[index]; }

  push(control: AbstractControl): void {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  _checkAllValuesPresent(value: any): void {
    for (let controlName of Object.keys(this.controls)) {
      if (value[controlName] !== undefined) {
        throw new Error(`Must supply a value for form control with name:
'${controlName}'.`);
      }
    }
  }

  // Other methods...
}
### Reset the values in a form array

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.reset(['name', 'last name']);
```

### Reset the values in a form array and

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.reset(['name', 'last name']);
```

### Patch the values for controls in a form array

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.patchValue(['Nancy', 'Drew']);
```

### Set the values for the controls in the form array

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.setValue(['Nancy', 'Drew']);
```

### Get the length:

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.length);  // 2
```
setUpControl, setUpFormContainer, syncPendingControls) from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm),
  resolve: (promised: 
    Promise.resolve(null))(): 
    any * description * Creates a top-level `FormGroup` instance and binds it to a form * to track aggregate form value and validation status.

* As soon as you import the 'FormsModule', this directive becomes active by default on all `<form>` tags. You don't need to add a special selector. * You optionally export the directive into a local template variable using `ngForm` as the key

* `setUpControl`, `setUpFormContainer`, `syncPendingControls` from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm),
  resolve: (promised: 
    Promise.resolve(null))(): 
    any * description * Creates a top-level `FormGroup` instance and binds it to a form * to track aggregate form value and validation status.

* As soon as you import the 'FormsModule', this directive becomes active by default on all `<form>` tags. You don't need to add a special selector. * You optionally export the directive into a local template variable using `ngForm` as the key

* `setUpControl`, `setUpFormContainer`, `syncPendingControls` from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm),
  resolve: (promised: 
    Promise.resolve(null))(): 
    any * description * Creates a top-level `FormGroup` instance and binds it to a form * to track aggregate form value and validation status.

* As soon as you import the 'FormsModule', this directive becomes active by default on all `<form>` tags. You don't need to add a special selector. * You optionally export the directive into a local template variable using `ngForm` as the key

* In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. * To import the 'FormsModule' but skip its usage in some forms, * for example, to use native HTML5 validation, add the `ngNoForm` and the `@form` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you wouldn't refrain from using the `formGroup` directive.

* In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever it's a FormModule or ReactiveFormsModule are imported into the application. * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element.

* The `FormGroup` instance created for this form.

* An event receiver for the `ngSubmit` event.

* Returns the form submission has been triggered.

* Returns whether the form submission has been triggered.

* A boolean value to indicate whether the form has been submitted.

* A map of the controls in this group.

* Method that sets up the control
directive in this group, re-calculates its value * and validity, and adds the instance to the internal list of directives.

```typescript
.directive in this group, re-calculates its value * and validity, and adds the instance to the internal list of directives.

```
array of async validators for the group
 *
 * @internal
 */

_asyncValidators !: any[];

this.formDirective.addFormGroup(this); 

* @description
 * An internal callback method triggered on the instance after the inputs are set.
 * Registers the group with its parent group.
 */

ngOnInit(): void {

  this._checkParentType();

  this.formDirective.addFormGroup(this);

  /*
   * @internal
   */

  // TODO(issue/24571): remove '!'.

  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */

  get control(): FormGroup {
    return this.formDirective.getFormGroup(this);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */

  get formDirective(): Form|null {
    return this._parent ? this._parent.formDirective : null;
  }

  /**
   * @description
   * The synchronous validators registered with this group.
   */

  get validator(): ValidatorFn|null {
    return composeValidators(this._validators);
  }

  /**
   * @description
   * The async validators registered with this group.
   */

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */

  _checkParentType(): void {
  }
}

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 */

import {FormErrorExamples as Examples} from './error_examples';

export class TemplateDrivenErrors {

  static modelParentException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formDirective.
      Try using `formGroupName` instead.

      Example:

      ${ Examples.formGroupName }

      Or, if you’d like to avoid registering this form control, indicate that it’s standalone in ngModelOptions.

      Example:

      ${ Examples.ngModelWithFormGroup }
  }

  static formGroupNameException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.

      Option 1: Use `formGroupName` instead of ngModel (reactive strategy):

      ${ Examples.formGroupName }

      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

      ${ Examples.ngModelGroup }
  }

  static missingNameException() {
    throw new Error(

      `If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.

      Example 1: '<input [(ngModel)]="person.firstName" name="first"/>
      Example 2: '<input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"/>

      This directive can only be used as a child of 'NgForm' (within '<form'> tags).

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    `);
  }

  static modelGroupParentException() {
    throw new Error(`
      ngModelGroup cannot be used with a parent formGroup directive.

      Option 1: Use `formGroupName` instead of ngModelGroup (reactive strategy):`

      $[{ Examples.formGroupName }]

      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):`

      $[{ Examples.ngModelGroup }]
  }
}

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 */

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {AbstractFormGroupDirective} from './abstract_form.group.directive';
import {ControlContainer} from './control.container';
import {ControlContainer} from './control.container';
import {NgForm} from './ng.form';
import {TemplateDrivenErrors} from './template_driven.errors';

export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup)
};

/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 *
 * This directive can only be used as a child of 'NgForm' (within '<form'> tags).
 * Use this directive to sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 * Provide a name for the sub-group and it will become the key.
 * For the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup=\"ngModelGroup\"`).
 */

export class NgModelGroup {

  /*
   * @description
   * An internal callback method triggered before the instance is destroyed.
   */

  ngOnDestroy(): void {
  /*
   * @internal
   */

  // TODO(issue/24571): remove '!'.

  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   */

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */

  get control(): FormGroup {
    return this.formDirective.getFormGroup(this);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */

  get formDirective(): Form|null {
    return this._parent ? this._parent.formDirective : null;
  }

  /**
   * @description
   * The synchronous validators registered with this group.
   */

  get validator(): ValidatorFn|null {
    return composeValidators(this._validators);
  }

  /**
   * @description
   * The async validators registered with this group.
   */

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */

  _checkParentType(): void {
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {AbstractFormGroupDirective} from './abstract_form.group.directive';
import {ControlContainer} from './control.container';
import {NgForm} from './ng.form';
import {TemplateDrivenErrors} from './template_driven.errors';

export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup)
};

/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 *
 * This directive can only be used as a child of 'NgForm' (within '<form'> tags).
 * Use this directive to sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 * Provide a name for the sub-group and it will become the key.
 * For the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup=\"ngModelGroup\"`).
 */

export class NgModelGroup {

  /*
   * @description
   * An internal callback method triggered before the instance is destroyed.
   */

  ngOnDestroy(): void {
  /*
   * @internal
   */

  // TODO(issue/24571): remove '!'.

  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   */

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */

  get control(): FormGroup {
    return this.formDirective.getFormGroup(this);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */

  get formDirective(): Form|null {
    return this._parent ? this._parent.formDirective : null;
  }

  /**
   * @description
   * The synchronous validators registered with this group.
   */

  get validator(): ValidatorFn|null {
    return composeValidators(this._validators);
  }

  /**
   * @description
   * The async validators registered with this group.
   */

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */

  _checkParentType(): void {
  }
}
following example shows you how to combine controls together in a sub-group

```typescript
[example forms/ts/ngModelGroup/ng_model_group_example.ts region='Component']

```
unnecessary to include one-way or two-way binding. \n * as the parent form syncs the value for you. Access its properties by exporting it into a \n * local variable using `ngForm` such as (`#f=\n\nngForm\n`). Use the variable where \n * needed on form submission.\n * \n * If you do need to populate initial values into your form, using a one-way binding for\n * `ngModel` tends to be sufficient as long as you use the exported form’s value rather\n * than the domain model’s value on submit.\n * \n * Using ngModel within a form:\n * \n * The following example shows controls using `\n * NgModel` within a form:\n * \n * This controls the display of the form, but doesn’t contain form data.\n * \n * As the parent form syncs the value for you. You access its properties by exporting it into a \n * local variable using `ngForm` such as (`#f=\n\nngForm\n`). Use the variable where \n * needed on form submission.\n * \n * If you do need to populate initial values into your form, using a one-way binding for\n * `ngModel` tends to be sufficient as long as you use the exported form’s value rather\n * than the domain model’s value on submit.\n * \n * Using ngModel within a form:\n * \n * The following example shows controls using `\n * NgModel` within a form:\n * \n * This controls the display of the form, but doesn’t contain form data.\n * \n * As the parent form syn...
angular forms, just add `ngNativeValidate` attribute:

```
<form ngNativeValidate></form>
```

`novalidate` is used to disable browser's native form validation.

If you want to use native validation with

```
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 * style license that can be n found in the LICENSE file at https://angular.io/license
 */

import {Directive} from

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 *
 * @param ngNoForm
 * @param names
 * @param path
 * @param form
 * @param name
 */

```
export {ɵNgNoValidate as NgNoValidate};

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see Reactive Forms Guide
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value:

```ts
this.formControl.setValue('some value');
```

### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version of Angular. Now deprecated:
 *
 * ```html
 * <input [formControl]='control' [(ngModel)]='value'>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

### Registering a single form control
 
### Use with ngModel

Now deprecated:

```html
<input [formControl]='control' [(ngModel)]='value'>
```

```ts
this.value = 'some value';
```

### Registering a single form control
 
### Use with ngModel

By default, when you use this pattern, you will see a deprecation warning once in development mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:

```ts
imports: [
  ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'});
]
```
@Output('ngModelChange') update = new EventEmitter();

/**
 * @description
 * Static property used to track whether any ngModel warnings have been sent across
 * all instances of FormControlDirective. Used to support warning config of 'once'.
 * @internal
 * static _ngModelWarningSentOnce = false;
 *
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this
 * particular FormControlDirective instance. Used to support warning config of 'always'.
 * @internal
 * _ngModelWarningSent = false;
 *
 * @optional
 * @self
 * @Inject(NG_VALIDATORS)
 * validators: Array<Validator|ValidatorFn>,
 * @optional
 * @self
 * @Inject(NG_ASYNC_VALIDATORS)
 * asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
 * @optional
 * @self
 * @Inject(NG_VALUE_ACCESSOR)
 * valueAccessors: ControlValueAccessor[],
 * @optional
 * @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)
 * private _ngModelWarningConfig: string|null
 */

constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn> | null,
            @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn> | null,
            @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[] | null,
            @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {

  this._rawValidators = validators || [];
  this._rawAsyncValidators = asyncValidators || [];
  this.valueAccessor = selectValueAccessor(this, valueAccessors);

  super();
  this.errorMessage = this._rawValidators;  // Remove all validators from an empty array.
  this.form = this.form || new FormGroup({});
  this.control = this.control || new FormControl();
  this.viewModel = this.viewModel || new FormControlValueAccessor(this.valueAccessor);
  this.viewModel.type = 'control';
  this.viewModel.name = this.viewModel.name || 'background';
  this.viewModel.value = this.viewModel.value || this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

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  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

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  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

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  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccessor(this.valueAccessor);

  this.viewModel.value = this.viewModel.value || new FormControlValueAccess
Register Form Group

The following example registers a `FormGroup` with first name and last name controls, and listens for the `ngSubmit` event when the button is clicked.

```typescript
export class MyComponent implements OnInit {
  form: FormGroup;

  constructor(private fb: FormBuilder) {
    this.form = this.fb
    .group({
      firstName: ['', Validators.required],
      lastName: ['', Validators.required]
    });
  }

  ngOnInit() {
    this.form.valueChanges.subscribe((value) => {
      console.log('Form value changed:', value);
    });
    this.form.controls['firstName'].valueChanges.subscribe((value) => {
      console.log('First name changed:', value);
    });
    this.form.controls['lastName'].valueChanges.subscribe((value) => {
      console.log('Last name changed:', value);
    });
  }
}
```

### Register Form

The following example registers a `FormGroup` with first name and last name controls, and listens for the `ngSubmit` event when the button is clicked.

```typescript
export class MyComponent implements OnInit {
  form: FormGroup;

  constructor(private fb: FormBuilder) {
    this.form = this.fb
    .group({
      firstName: ['', Validators.required],
      lastName: ['', Validators.required]
    });
  }

  ngOnInit() {
    this.form.valueChanges.subscribe((value) => {
      console.log('Form value changed:', value);
    });
    this.form.controls['firstName'].valueChanges.subscribe((value) => {
      console.log('First name changed:', value);
    });
    this.form.controls['lastName'].valueChanges.subscribe((value) => {
      console.log('Last name changed:', value);
    });
  }
}
```
directive.

```typescript
/**
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 */

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {AsyncValidatorFn, ValidatorFn} from '../validators';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroupDirective`. It accepts the string name of the nested `FormGroup` to link, and looks for a `FormGroup` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`.

 * Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

 * @see [Reactive Forms Guide](guide/reactive-forms)
 *
 * @usageNotes
 *
 * ### Access the group by name
 *
 * The following example uses the `@link AbstractControl#get get` method to access the group:

 * ```ts
 *   this.form.get('name');
 * ```
 *
 * ### Access individual controls in the group
 *
 * The following example uses the `@link AbstractControl#get get` method to access individual controls within the group using dot syntax:

 * ```ts
 *   this.form.get('name.first');
 * ```
 *
 * ### Register a nested `FormGroup` within an existing `FormGroup`
 *
 * The following example registers a nested `FormGroup` within an existing `FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls:

 * ```ts
 * @example forms/ts/nestedFormGroup/nested_form_group_example.ts
 * ```
 *
 * @ngModule
 * ReactiveFormsModule
 * @publicApi
 * @directive([selector: [formGroupName], provides: [formGroupNameProvider]])
 */

export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  private _oldForm = null;
  private _validators = null;
  private _asyncValidators = null;

  @Input() formGroupName: string = null;

  constructor(@Self() form: FormGroupDirective, @SkipSelf() private formName: string, @Optional() control: ControlContainer) {
    super(form, formName, control);
    formGroup = form.group;
    this._checkFormPresent();
    this.resolvedControl = control;
  }

  ngOnInit() {
    this._oldForm = this.form.get(this.formGroupName);
    if (this._oldForm) {
      this._oldForm._registerOnCollectionChange(() => this._updateRegistrations());
      this._updateRegistrations();
    }
    this._updateValidators();
    this._checkFormPresent();
  }

  ngOnDestroy() {
    this.removeDOMChangeEvents();
    for (const dir of this.directives) {
      dir.removeDOMChangeEvents();
    }
  }

  private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._updateValidators();
  }

  private _updateValidators() {
    this.form.validator = Validators.compose(this.form.validator!, this.form.groupValidator);
    this.form.asyncValidator = Validators.composeAsync(this.form.asyncValidator!, this.form.groupAsyncValidator);
  }

  private _checkFormPresent() {
    if (!this.form) {
      ReactiveErrors.missingFormException();
    }
  }
}
```
for form groups to be bound to indices when iterating over groups in a `FormArray`.

```typescript
/** *
 * @description
 * Tracks the name of the `FormArray` bound to this directive. The name corresponds
 * to a key in the parent `FormGroup` or `FormArray`. It accepts a
 * name as a string or a number. * The name in the form of a string is useful for individual forms, * while the
 * numerical form of form arrays to be bound to indices when iterating over arrays in a `FormArray`.
 */
// TODO(issue/24571): remove '!'.
@Input('formArrayName') name !: string | number | null;

constructor(
  @Optional() @Host() @SkipSelf() parent: ControlContainer,
  @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
  @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])

  /** *
   * @description
   * A lifecycle method called when the directive's inputs are initialized. For internal use only.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective !.addFormArray(this);
  }

  /** *
   * @description
   * A lifecycle method called before the directive's instance is destroyed. For internal use
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  /** *
   * @description
   * The `FormArray` bound to this directive.
   */
  get control(): FormArray {
    return this.formDirective !.getFormArray(this);
  }

  /** *
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): FormGroupDirective|null {
    return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
  }

  /** *
   * @description
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /** *
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  get validator(): ValidatorFn|null {
    return composeValidators(this._validators);
  }

  /** *
   * Async validator function composed of all the async validators registered with this directive.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }
```

---

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from '../..../model'\nimport {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../..../validators'\nimport {AbstractFormGroupDirective} from '../abstract_form_group_directive'\nimport {ControlContainer} from '../control_container'\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor'\nimport {NgControl, AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators'\nimport {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared'\nimport {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive'\nimport {FormGroupDirective} from './form_group_directive'\nimport {FormArrayName, FormGroupName} from './form_group_name'\n
export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)\n};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.\n * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group\n * and set their value.
 *
 * To see `formControlName` examples with different form control types, see:
 * @example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
 * 
 * To export the directive - simply don't work,\n * which has understandably caused some confusion.\n * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * we generally don't recommend because it doesn't take advantage of the full benefits of
 * either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in
 * the class removes the convenience of defining forms in the template.\n * To update your code before support is removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive forms patterns) or switch over to
 * template-driven directives.\n * After (choice 1 - use reactive forms):\n * ```html
 * <form [formGroup]="form">
 *   <input formControlName="first">
 * </form>
 * ```
 *
 * ```ts
 * this.form.get('first').setValue('some value');
 * ```
 *
 * After (choice 2 - use template-driven forms):
 * ```html
 * <input [(ngModel)]="value">
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import time:
 * ```ts
 * imports:
 * [\n *   ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})\n * ]
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config of `\n * ```ts
 * ```
 * This may help to track down where in the code\n * the pattern is being used as the code is being
 * updated.\n * @ngModule ReactiveFormsModule\n * @publicApi\n * @Directive({selector:
 * [\n *   ['formControlName'],\n *   providers: [controlNameBinding]\n * ]
 * })
 * export class FormControlName extends NgControl implements OnChanges, OnDestroy {\n * private _added = false;\n * @description\n * Internal reference to the view model value.\n * @internal\n * 
 * Track the `FormControl` instance bound to the directive.\n * @track by (`TODO(issue/24571): remove `!` from readonly control`:`
 * FormControl\n * @description\n * Tracks the name of the `FormControl` bound to the directive. The name
 * corresponds to a key in the parent `FormGroup` or `FormArray`.\n * Accepts a name as a string or a number.\n * The name in the form of a string is useful for individual forms,\n * while the numerical form allows
for form controls to be bound to indices when iterating over controls in a 'FormArray'.

@Input('formControlName') name: string | number | null;

* @description

  * Triggers a warning that this input should not be used with reactive forms.

* @Input('disabled') isDisabled: boolean; (ReactiveErrors.disabledAttrWarning();)

TO DO(kara): remove next 4 properties once deprecation period is over

* @Input('ngModel') model: any;

* @Input() ngModelChange: EventEmitter;

* @Input('disabled')

  set isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }

* @deprecated as of v6

  @Input('ngModel')
  model: any;

* @Output('ngModelChange') update = new EventEmitter();

* @Input() @SkipSelf() parent: ControlContainer;

* @Optional() @Self()

  @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>;

* @Optional() @Self()

  @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>;

* @Optional() @Self()

  @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[];

* @Optional()

  @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:

  * @description

  * A lifecycle method called when the directive's inputs change. For internal use only.

  * @param changes A object of key/value pairs for the set of changed inputs.

* ngOnChanges(changes: SimpleChanges) {

  if (!this._added) this._setUpControl();

  if (isPropertyUpdated(changes, this.viewModel)) {

    ReactiveErrors.ngModelWarning('formControlName', FormControlName,
      this, this._ngModelWarningConfig);

    this.viewModel = this.model;

    this.formDirective.updateModel(this,
      this.model);

  }

* ngOnDestroy(): void {

  if (this.formDirective) {

    this.formDirective.removeControl(this);

  }

* viewToModelUpdate(newValue: any): void {

  this.viewModel = newValue;

  this.update.emit(newValue);

* get path(): string[] {

  return controlPath(this.name == null ? this.name : this.name.toString(),
    this._parent !);

* get formDirective(): any {

  return this._parent.formDirective;

* get validator(): ValidatorFn|null {

  return composeValidators(this._rawValidators);

* get asyncValidator(): AsyncValidatorFn {

  return composeAsyncValidators(this._rawAsyncValidators) !;

* _checkParentType(): void {

  if (!(this._parent instanceof FormGroupName) &&
    this._parent instanceof AbstractFormGroupDirective) {

    ReactiveErrors.ngModelGroupException();

  } else if (!this._parent instanceof FormArrayName) {

    ReactiveErrors.controlParentException();

  }

* _setUpControl() {

  this._checkParentType();

  this.formDirective.addControl(this);

  this.valueAccessor!.setDisabledState !(true);

  this._added = true;

  "*/

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@description
* Defines the map of errors returned from failed validation checks.

```typescript
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 * @publicApi
 */
export interface Validator {
  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   * @param control The control to validate against.
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * @description
 * An interface implemented by classes that perform asynchronous validation.
 * @publicApi
 */
export interface AsyncValidator extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   * @param control The control to validate against.
   * @returns A promise or observable that resolves a map of validation errors if
   * validation fails, otherwise null.
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

/**
 * @description
 * A directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * 
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 * 
 * ### Adding a required validator using template-driven forms
 *
 * ```
 * <input
 * name="fullName" ngModel required>
 * ```
 *
 * @ngModule FormsModule
 * @ngModule
 * ReactiveFormsModule
 * @publicApi
 */
@Directive({
  selector: ':not([type=checkbox])[required][formControlName]!,:not([type=checkbox])[required][formControl]!,:not([type=checkbox])
[required][ngModel]!',
  providers: [REQUAED_VALIDATOR],
  host: {'attr:required': 'required ? [] : null'}
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the required attribute bound to this directive.
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void {
    this._onChange = fn;
  }

  /**
   * @description
   * Method that validates whether the control is empty.
   * @param fn The callback function
   * @returns The validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._required
  }
}

/**
 * A Directive that adds the `required` validator to checkbox controls marked with
 * the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-
...
Adding a required checkbox validator to an input attached to an ngModel binding. The following example shows how to add an email validator to an input attached to an ngModel binding.

```html
<input name="email" ngModel email="true">
```
@description
* Tracks changes to the the minimum length bound to this directive.
*/

TODO(issue/24571): remove '!'.

* @Input() minlength!: string | number;

**
* @description
* A lifecycle method called when the directive's inputs change. For internal use only.
* only.
* @param changes A object of key/value pairs for the set of changed inputs.
* ngOnChanges(changes: SimpleChanges): void {
  if ('minlength' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
}

**
* @description
* Method that validates whether the value meets a minimum length requirement.

Returns the validation result if enabled, otherwise null.

* @validate(control: AbstractControl): ValidationErrors>null {
  return this.minlength == null ? null : this._validator(control);
}

**
* @description
* Registers a callback function to call when the validator inputs change.

* @param fn The callback function

* @description
* Method that validates whether the value exceeds the maximum length requirement.

* @validate(control: AbstractControl): ValidationErrors|null {
  return this.maxlength != null ? this._validator(control) : null;
}

**
* @description
* Registers a callback function to call when the validator inputs change.

* @param fn The callback function

* @description
* Tracks changes to the maximum length bound to this directive.

* @validate(control: AbstractControl): ValidationErrors|null {
  return this.maxlength == null ? null : this._validator(control);
}

**
* @description
* A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.

* @validate(control: AbstractControl): ValidationErrors|null {
  return this.pattern == null ? null : this._validator(control);
}

**
* @description
* Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.

MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true,
  *>(

default: function() {
  return this.minlength == null ? null : this._validator(control);
})

**
* @description
* A directive that adds pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.

* @validate(control: AbstractControl): ValidationErrors|null {
  return this.pattern == null ? null : this._validator(control);
}

**
* @description
* Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.

PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
  *>(

default: function() {
  return this.pattern == null ? null : this._validator(control);
})

**
* @description
* A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.

* @validate(control: AbstractControl): ValidationErrors|null {
  return this.pattern == null ? null : this._validator(control);
}
changes to the pattern bound to this directive. */
   
   // TODO(issue/24571): remove '!'.
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For
   * internal use only, * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the
   * pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  /**
   * @description
   * Registers a callback function to call when the
   * validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}

/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {NgModule, Type} from '@angular/core';

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {FormControlDirective} from './directives/reactive_directives/form_control_directive';
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
import {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
export {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RadioControlValueAccessor,
  NgModelGroup,
  NgControlStatusGroup,
  RequiredValidator,
  MinLengthValidator,
  MaxLengthValidator,
  PatternValidator,
  CheckboxRequiredValidator,
EmailValidator,

];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
    NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

/**
 * Internal module used for sharing directives between FormsModule and ReactiveFormsModule
 */

@NgModule({
  declarations: SHARED_FORM_DIRECTIVES,
  exports: SHARED_FORM_DIRECTIVES,
})
export class ɵInternalFormsSharedModule {
  /**
   * @license
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   * Use of this source code is governed by an MIT-style license that can be
   * found in the LICENSE file at https://angular.io/license
   */

  import {Injectable} from '@angular/core';

  import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
  import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

  function isAbstractControlOptions(options: AbstractControlOptions | {key: string;}: any): options is AbstractControlOptions {
    return (<AbstractControlOptions>options).validators !== undefined ||
      (<AbstractControlOptions>options).asyncValidators !== undefined ||
      (<AbstractControlOptions>options).updateOn !== undefined;
  }

  /**
   * Creates an `AbstractControl` from a user-specified configuration.
   *
   * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
   *
   * @see [Reactive Forms Guide](https://angular.io/guide/reactive-forms)
   */

  @Injectable()
  export class FormBuilder {
    /**
     * Construct a **FormGroup** instance.
     *
     * @param
     * `controlsConfig` A collection of child controls. The key for each child is the name under which it is registered.
     *
     * @param
     * `options` Configuration options object for the `FormGroup`. The object can have two shapes:
     *
     * 1) `'AbstractControlOptions' object (preferred), which consists of:
     * * `validators`: A synchronous validator function, or an array of validator functions
     * * `asyncValidators`: A single async validator or array of async validator functions
     * * `updateOn`: The event upon which the control should be updated (options: 'change'|'blur'|'submit')
     *
     * 2) Legacy configuration object, which consists of:
     * * `validator`: A synchronous validator function, or an array of such functions
     * * `asyncValidator`: A single async validator or array of async validator functions
     *
     * @see [Reusable Forms Guide](https://angular.io/guide/reactive-forms)
     */

    group(controlsConfig: {key: string;}: any, options: AbstractControlOptions | {key: string;}: any | null = null): FormGroup {
      const controls = this._reduceControls(controlsConfig);

      let validators: ValidatorFn | ValidatorFn[] | null = null;
      let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
      let updateOn: FormHooks | undefined = undefined;

      if (options != null) {
        if (isAbstractControlOptions(options)) {
          // `options` are `AbstractControlOptions`
          validators = options.validators != null ? options.validators : null;
          asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
        } else {
          // `options` are legacy form group options
          validators = options['validator'] != null ? options['validator'] : null;
          asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
        }
      }

      return new FormGroup(controls, {validators, asyncValidators, updateOn});
    }

    /**
     * Constructs a new `FormArray` from the given array of
     * `AbstractControl` instances.
     */

    control(formState: any, validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null, asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null): FormControl {
      return new FormControl(formState, validatorOrOpts, asyncValidator);
    }

    /**
     * `AbstractControlOptions` object that contains:
     * * validation functions and a validation trigger.
     * * id: A unique identifier for the control.
     * * control: The `FormControl` or `FormGroup` that this control is a part of.
     * * formState: The form state of the control.
     * * validatorOrOpts: A synchronous validator function, or an array of such functions.
     * * asyncValidator: A single async validator or array of such validators.
     * * updateOn: The event upon which the control should be updated (options: 'change'|'blur'|'submit').
     */

    /**
     * Constructs a new `FormArray` from the given array of
     * `AbstractControl` instances.
     */

    FormArray(formState: any, validatorOrOpts: AbstractControlOptions | null, asyncValidator: AsyncValidatorFn | AsyncValidatorFn[] | null): FormGroup {
      return new FormGroup(formState, validatorOrOpts, asyncValidator);
    }
  }
}
configurations,

* validators and options.

* **@param controlsConfig** An array of child controls or control configs. Each control is given an index when it is registered.

* **@param validatorOrOpts** A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.

* **@param asyncValidator** A single async validator or array of async validators.


* @internal

  `Array.prototype.map(c =>
    this._createControl(c));

  return new FormArray(controls, validatorOrOpts, asyncValidator);

)/**

@internal */

  `Object.keys(controlsConfig).forEach(controlName => {
    controls[controlName] = this._createControl(controlsConfig[controlName]);
  });

  return controls;

/**

@internal */

  `if (controlConfig instanceof FormControl

    || controlConfig instanceof FormGroup ||

    controlConfig instanceof FormArray) {

    return controlConfig;

  } else if (Array.isArray(controlConfig)) {

    const value = controlConfig[0];

    const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;


    return this.control(value, validator, asyncValidator);

  } else {

    return this.control(controlConfig);

  }

```
EAAE,cAAC,CAAC,CAAC,SAEvD,aAAM,YACL,OOA0,IAAL,CAAC,OOA0,CAAC,aAAa,CAAC,CAAC;SACpC,KACF,;;YA3HF,UAU,;;;;;AC8X,MAAa,OOAO,GAAG,IAAI,OOA0,CAAC,mBAAnB,CAAC;;;;;;;;;;;:ACqvD,MAAa,WAAD,;;YALvB,QAQQ,SCAc,SBACR,YAAY,EAAE,0BA0B,SBACvC,SAAS,EAAE,CAAC,oBAoB,CAACc:GACjC,OOA0,EAAE,CAACc,0BAAYB,EAAE,0BA0B,CAACc:ACjE,;;;;;:AABBD,MAAa,mBAAmB,;;;;;:IAS9B,OOA0,UAU,CAACc:IAEjB,SCAc,OOA0,YACL,QAQQ,EAAE,mBAAmB:YAC7B,SAAS,EAAE,CAACc:BAcV,OOA0,EAAE,CAACc:CAAcKc:BAc3C,QAQQ,EAAE,IAAI,CAAC,4BA4B;iBAC5C,C AACc:SAcC,CAAC;KACF,;;YA3HF,UAU,;;;;;ACbX,MAAa,OAAO,GAAG,IAAI,OAAO,CAAC,;;ACQvD,MAAa,WAAW;;;YALvB,QAAQ,SAAC;gBACR,YAAY,EAAE,0BAA0B;gBACxC,SAAS,EAAE,CAAC,eBAoB,CAACc:GACjC,OOA0,EAAE,CAACc,0BAAYB,EAAC,0BA0B,CAACc:ACjE,;;;;;;;;;;;;;;AC3CD;;GAEG;;;;"}  

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

```
```ts
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

On blur
Store the callback function

The following example stores the provided function as an internal method.
```ts
writeValue(obj: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', obj);
}
```

### Store the change function

The following example stores the provided function as an internal method.
```ts
registerOnChange(fn: (_: any) => void): void {
  this._onChange = fn;
}
```

When the value changes in the UI, call the registered function to allow the forms API to update itself.
```ts
registerOnBlur(): void {
  if (!this._onBlur) return;
  this._onBlur ? this._onBlur() : this._onBlur = () => {};
}
```

When implementing the `registerOnTouched` method in your own value accessor, save the given function so your class calls it when the control should be considered `blurred` or `touched`.
```ts
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

On blur
(or equivalent), your class should call the registered function to allow
the forms API to update itself:
```ts
host: {
    '(blur)': '_onTouched()
}
```

```ts
registerOnTouched(fn: any): void;
```
@description
* The default 'ControlValueAccessor' for writing a value and listening to changes on input elements. The accessor is used by the 'FormControlDirective', 'FormControlName', and @ngModel directives.

* @usageNotes
* @
* ### Using the default value accessor
* The following example shows how to use an input element that activates the default value accessor.
* (in this case, a text field):

```ts
const firstNameControl = new FormControl();
```

```
<input type="text"[formControl]='firstNameControl'>
```

@ngModule ReactiveFormsModule @ngModule FormsModule @publicApi @Optional()
@Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean

* This registered callback function called when an input event occurs on the input element.
* onChange = (...: any) => { };
* onTouched();
* compositionStart()
*
* Whether the user is creating a composition string (IME events).
*
* private _composing = false;
*
* @private
* @constructor
* @paramRenderer2, private _elementRef: ElementRef
*
* @ngModule ReactiveFormsModule @ngModule FormsModule
* @publicApi
*/
export class DefaultValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when an input event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Whether the user is creating a composition string (IME events).
   */
  private _composing = false;

  constructor(
    private _renderer: Renderer2, private _elementRef: ElementRef,
    @Optional()
    @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean)
  {
    if (this._compositionMode == null) {
      this._compositionMode = !_isAndroid();
    }
  }

  /**
   * Sets the "value" property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value changes.
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange = fn;
    }
  }

  /** @internal */
  _compositionStart(): void { this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.onChange(value);
  }
}

import {Observable} from 'rxjs';
import {AbstractControl} from '../model';
import {ValidationErrors} from './validators';

/**
 * Base class for control directives.
 * This class is only used internally in the 'ReactiveFormsModule' and the 'FormsModule'.
 * @publicApi
 * @export abstract class AbstractControlDirective
 */
export abstract class AbstractControlDirective {
  /**
   * A reference to the underlying control.
   */
  get control(): AbstractControl|null {
    return this.control ? this.control : null;
  }

  /**
   * Reports whether the control is valid. A control is considered valid if no validation errors exist with the current value.
   * If the control is not present, null is returned.
   */
  get valid(): boolean|null {
    return this.control ? this.control.valid : null;
  }

  /**
   * Reports whether the control is invalid, meaning that an error exists in the input value.
   * If the control is not present, null is returned.
   */
  get invalid(): boolean|null {
    return this.control ? this.control.invalid : null;
  }
}
Reports whether a control is pending, meaning that that async validation is occurring and
* errors are not yet available for the input value. If the control is not present, null is
* returned. boolean|null { return this.control ? this.control.pending : null; }\n/**\n * @description\n * Reports whether the control is disabled, meaning that the control is disabled in
 * the UI and is exempt from validation checks and excluded from aggregate values
 * of ancestor controls. If the control is not present, null is returned. boolean|null
 * { return this.control ? this.control.disabled : null; }\n/**\n * @description\n * Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value. If the control is not present, null is returned. boolean|null { return this.control ? this.control.enabled : null; }\n/**\n * @description\n * It can be provided to this method in one of two formats:
 * 1. An array of string control names, e.g. `['address', 'street']`
 * 1. A period-delimited list of control names in one string, e.g. `'address.street'`
 * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * It can be provided to this method in one of two formats:
 * `FormGroup({ street: new FormControl() })
 * ```
 * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * If the control is not present, null is returned.
 * ```
 * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * If the control is not present, null is returned.
 * ```
 * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * If the control is not present, null is returned.
 * ```
 * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * If the control is not present, null is returned.
An array of string control names, e.g. `['address', 'street']`. A period-delimited list of control names in one string, e.g. `"address.street"`. *

* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

* @returns null if the control is invalid.

* @returns a boolean indicating whether the control is valid or invalid.

* @returns an object containing error information, or `null` if there are no errors.

* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

* @returns null if the control is invalid.

* @returns a boolean indicating whether the control is valid or invalid.

* @returns an object containing error information, or `null` if there are no errors.

* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

* @returns null if the control is invalid.

* @returns a boolean indicating whether the control is valid or invalid.

* @returns an object containing error information, or `null` if there are no errors.

* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

* @returns null if the control is invalid.

* @returns a boolean indicating whether the control is valid or invalid.

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* @returns error data for that particular error. If the control or error is not present, `null` is returned.

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* @returns a boolean indicating whether the control is valid or invalid.

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* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

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* @returns error data for that particular error. If the control or error is not present, `null` is returned.

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* @returns null if the control is invalid.

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* @returns error data for that particular error. If the control or error is not present, `null` is returned.

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* @returns a boolean indicating whether the control is valid or invalid.

* @returns an object containing error information, or `null` if there are no errors.

* @returns error data for that particular error. If the control or error is not present, `null` is returned.

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* @returns error data for that particular error. If the control or error is not present, `null` is returned.

* @returns true if the control is valid.

* @returns null if the control is invalid.

* @returns a boolean indicating whether the control is valid or invalid.

* @returns an object containing error information, or `null` if there are no errors.

* @returns error data for that particular error. If the control or error is not present, `null` is returned.
controls that sets CSS classes based on control status. The following classes are applied as the properties become true:

* `ng-valid`*: valid
* `ng-invalid`*: invalid
* `ng-touched`*: touched
* `ng-untouched`*: untouched
* `ng-pristine`*: pristine
* `ng-dirty`*: dirty

```typescript
/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes based on control status
 * (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '
    [formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm],
    host: ngControlStatusHost
  }
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`.
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
 * - A `label` cannot begin or end with a dash (`-`) or periods (`.`) and cannot be longer than 63 characters.
 * - The whole address cannot be longer than 254 characters.
 *
 * ## Implementation
 *
 * This regexp was ported over from AngularJS (see there for git history):
 * https://github.com/angular/angular.js/blob/133f836/src/ng/directive/input.js#L27
 * This is based on the WHATWG version:
 * https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address
 * but it incorporates some enhancements to incorporate more RFC rules (such as rules related to domain names and lengths of different parts of the address).
 *
 * The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
 *
 * This regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`.
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
 * - A `label` cannot begin or end with a dash (`-`) or periods (`.`) and cannot be longer than 63 characters.
 * - The whole address cannot be longer than 254 characters.
 *
 * This is based on the WHATWG version:
 * https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address
 * but it incorporates some enhancements to incorporate more RFC rules (such as rules related to domain names and lengths of different parts of the address).
 *
 * The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
 *
 * This is based on the WHATWG version:
 * https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address
 * but it incorporates some enhancements to incorporate more RFC rules (such as rules related to domain names and lengths of different parts of the address).
 *
 * The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
collection of controls and returns an error map or null. A null map means that validation has passed. 

```typescript
const control = new FormControl(2, Validators.min(3));
```

// Controls with NaN values after parsing should be treated as not having a minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min

```typescript
return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
```

@see [Form Validation](/guide/form-validation)

@description
Validator that requires the control's value to be less than or equal to the provided number.

```typescript
return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
```

@description
Validator that requires the control have a non-empty value.

```typescript
return isEmptyInputValue(control.value) ? {'required': true} : null;
```

@description
Validator that requires the control's value pass an email validation test.

```typescript
return control.value === true ? null : {'required': true};
```

@description
Validator that requires the control's value to be true.

```typescript
return control.value === true ? null : {'required': true};
```

@description
Validator that requires the control's value to be less than or equal to the provided number.
if the validation check fails, otherwise `null`.

```typescript
null;  // don't validate empty values to allow optional controls
})
```

```html
```
(ValidatorFn|null|undefined)[null]: ValidatorFn|null {\n  if (!validators) return null;\n  const presentValidators: ValidatorFn[] = validators.filter(isPresent) as any;\n  if (presentValidators.length == 0) return null;\n  return function(control: AbstractControl) {\n    return _mergeErrors(_executeValidators(control, presentValidators));\n  }\n}\n}\n\nfunction isPresent(o: any): boolean {
  return o != null;
}\n
export function toObservable(r: any): Observable<any> {
  const obs = isPromise(r) ? from(r) : r;
  if (!(isObservable(obs))) {
    throw new Error(`Expected validator to return Promise or Observable.`);
  }
  return obs;
}\n
function _executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {
  return validators.map(v => v(control));\n}\n
function _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): any[] {
  return validators.map(v => v(control));\n}\n
function _mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors|null {
  let res: {
    [key: string]: any
  } = {};
  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  arrayOfErrors.forEach((errors: ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });
  return Object.keys(res).length === 0 ? null : res ;
}\n
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {AbstractControl} from '../model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if ((<Validator>validator).validate) {
    return (c: AbstractControl) => (<Validator>validator).validate(c);
  } else {
    return <ValidatorFn>validator;
  }
}\n
export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator):
    AsyncValidatorFn {
  if ((<AsyncValidator>validator).validate) {
    return (c: AbstractControl) => (<AsyncValidator>validator).validate(c);
  } else {
    return <AsyncValidatorFn>validator;
  }
}\n
/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel`
 * directives.
 *
 * @usageNotes
 *
 * ### Using a number input with a reactive form.
 *
 * The
 * following example shows how to use a number input with a reactive form.
 * The value is accessed using the `FormControlDirective`, `FormControlName`, and
 * `NgModel`
 * directives.
 *
 * let input: any = document.querySelector('input[type=number][formControlName]');\n * input.value = 42;\n * input.dispatchEvent(new Event('input'));\n * input.dispatchEvent(new Event('change'));\n * input.dispatchEvent(new Event('blur'));\n *\n * @description
 * The registered callback function called when a
 * change or input event occurs on the input\n * element\n * @description
 * The registered callback function called when a blur event occurs on the input element.
 *\n */

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/**
   * Sets the "value" property on the input element.
   *
   * @param value The checked value
   */

this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);

/**
 * Registers a function called when the control value changes.
 *
 * @param fn The callback function
 */

this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };

/**
 * Sets the "disabled" property on the input element.
 *
 * @param isDisabled The disabled value
 */

this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

/**
 * Adds a control to the internal registry. For internal use only.
 */

RadioControlRegistry.prototype.remove = function(accessor) {...

/**
 * Selects a radio button. For internal use only.
 */

RadioControlValueAccessor.prototype.select = function(accessor) {...

/**
 * The registered callback function called when a change event occurs on the input element.
 */

this.onChange = (event) => {...

/**
 * The registered callback function called when a blur event occurs on the input element.
 */

this.onTouched = () => {...

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 */

RadioControlValueAccessor.prototype.writeValue = function(value) {...

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 */

RadioControlValueAccessor.prototype.writeValue = function(value) {...

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 */

RadioControlValueAccessor.prototype.writeValue = function(value) {...

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 */

RadioControlValueAccessor.prototype.writeValue = function(value) {...

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
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 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 */

RadioControlValueAccess
@Input() value: any; 

  constructor( 
      private _renderer: Renderer2, private _elementRef: ElementRef, 
      private _registry: RadioControlRegistry, private _injector: Injector) { 
    this._state = value; 
  }

  ngOnInit(): void { 
    this._control = 
        this._injector.get(NgControl); 
    this._checkName(); 
    this._registry.add(this._control, this); 
  }

  ngOnDestroy(): void { this._registry.remove(this); }

  writeValue(value: any): void { 
    this.writeValue(value); 
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value); 
  }

  registerOnChange(fn: (_: any) => {}): void { 
    this.onChange = fn; 
    this._registry.select(this); 
  }

  registerOnTouched(fn: () => {}): void { this.onTouched = fn; 

  setDisabledState(isDisabled: boolean): void { 
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); 
  }

  private _checkName(): void { 
    if (this.name && this.formControlName && 
        this.name !== this.formControlName) { 
      this._throwNameError(); 
    } 
    if (!this.name && this.formControlName) this.name = this.formControlName; 
  }

  private _throwNameError(): throw { 
  
  const new Error(`
        If you define both a name and a formControlName attribute on your radio button, their values

        must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
  }
}

/**
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 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import { Directive, 
  ElementRef, Renderer2, StaticProvider, forwardRef } from '@angular/core';

import { ControlValueAccessor, 
  NG_VALUE_ACCESSOR } from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR: StaticProvider = 
  { provide: NG_VALUE_ACCESSOR, 
    useExisting: forwardRef(() => 
      RangeValueAccessor), 
    multi: true }; 

/**
 * @description
 * The `ControlValueAccessor` for writing a
 * range value and listening to range input changes.
 * The `ControlValueAccessor` is used by the `FormControlDirective`,
 * `FormControlName`, and `NgModel` directives.
 * 
 * @usageNotes
 *
 * ### Using a range input with a
 * reactive form
 *
 * The following example shows how to use a range input with a reactive form.
 *
 * ```ts
 * const ageControl = new FormControl();
 * ```
 *
 * ```
 * <input type="range" [formControl]="ageControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule

 * @publicApi
 */
@Directive({
  selector: 
    '[type=range][formControlName], [type=range][formModel], [type=range][ngModel]',
  host: 
    { 'change': 'onChange($event.target.value)', 
      'input': 'onChange($event.target.value)', 
      'blur': 'onTouched($event)', 
      providers: [RANGE_VALUE_ACCESSOR]
    },
  inject: class RangeValueAccessor implements ControlValueAccessor {
    /**
     * @description
     * The registered callback function called when a
     * change or input event occurs on the input element.
     * 
     * @param fn The callback function
     * @description
     * The registered callback function called when a blur event occurs on the input element.
     * 
     * @param fn The callback function
     * @description
     * Registers a function called when the control value
     * changes.
     * 
     * @param fn The callback function
     * @param fn The callback function
     * @param fn The callback function
     */
    onChange = ($event) => { 
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', $event); 
    };

    constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value); 
    }

    writeValue(value: any): void { 
      this.writeValue(value); 
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value); 
    }

    registerOnChange(fn: (_: any) => {}): void { 
      this.onChange = fn; 
      this._registry.select(this); 
    }

    registerOnTouched(fn: () => {}): void { 
      this.onTouched = fn; 
      this._registry.select(this); 
    }

    setDisabledState(isDisabled: boolean): boolean { 
      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); 
    }

    private _checkName(): void { 
      if (this.name && this.formControlName && 
          this.name !== this.formControlName) { 
        this._throwNameError(); 
      } 
      if (!this.name && this.formControlName) this.name = this.formControlName; 
    }

    private _throwNameError(): void { 
      throw 
        new Error(`
        If you define both a name and a formControlName attribute on your radio button, their values

        must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
  }
}

import { Directive, 
  ElementRef, Renderer2, StaticProvider, forwardRef } from '@angular/core';

import { ControlValueAccessor, 
  NG_VALUE_ACCESSOR } from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR: StaticProvider = 
  { provide: NG_VALUE_ACCESSOR, 
    useExisting: forwardRef(() => 
      RangeValueAccessor), 
    multi: true }; 

/**
 * @description
 * The `ControlValueAccessor` for writing a
 * range value and listening to range input changes.
 * The `ControlValueAccessor` is used by the `FormControlDirective`,
 * `FormControlName`, and `NgModel` directives.
 * 
 * @usageNotes
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 * ### Using a range input with a
 * reactive form
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 * The following example shows how to use a range input with a reactive form.
 *
 * ```ts
 * const ageControl = new FormControl();
 * ```
 *
 * ```
 * <input type="range" [formControl]="ageControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule

 * @publicApi
 */
@Directive({
  selector: 
    '[type=range][formControlName], [type=range][formModel], [type=range][ngModel]',
  host: 
    { 'change': 'onChange($event.target.value)', 
      'input': 'onChange($event.target.value)', 
      'blur': 'onTouched($event)', 
      providers: [RANGE_VALUE_ACCESSOR]
    },
  inject: class RangeValueAccessor implements ControlValueAccessor {
    /**
     * @description
     * The registered callback function called when a
     * change or input event occurs on the input element.
     * 
     * @param fn The callback function
     * @description
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     * @param fn The callback function
     * @description
     * Registers a function called when the control value
     * changes.
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     * @param fn The callback function
     * @param fn The callback function
     * @param fn The callback function
     */
    onChange = ($event) => { 
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', $event); 
    };

    constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value); 
    }

    writeValue(value: any): void { 
      this.writeValue(value); 
      this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value); 
    }

    registerOnChange(fn: (_: any) => {}): void { 
      this.onChange = fn; 
      this._registry.select(this); 
    }

    registerOnTouched(fn: () => {}): void { 
      this.onTouched = fn; 
      this._registry.select(this); 
    }

    setDisabledState(isDisabled: boolean): void { 
      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); 
    }

    private _checkName(): void { 
      if (this.name && this.formControlName && 
          this.name !== this.formControlName) { 
        this._throwNameError(); 
      } 
      if (!this.name && this.formControlName) this.name = this.formControlName; 
    }

    private _throwNameError(): void { 
      throw 
        new Error(`
        If you define both a name and a formControlName attribute on your radio button, their values

        must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
  }
}
boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

<input formControlName="firstName"></input>
    </div>

    In your class:

    this.myGroup = new FormGroup({
    firstName: new FormControl()
    });

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });

    It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true and you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

    Example: 
    form = new FormGroup({
      first: new FormControl({ value: 'Nancy', disabled: true }, Validators.required),
      last: new FormControl('Drew', Validators.required)
    });

    It looks like you're using ngModel on the same form field as ${{directiveName}}. For more information on this, see our API docs here: https://angular.io/api/forms/${{directiveName}}. For support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.

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`<select>` supports `compareWith` input. `compareWith` takes a `function` which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects options by the return value of the function. `compareWith` can compare any object identity. It's possible for the identities of items to change while the data doesn't. This can happen, for example, if the items are produced on an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

To customize the default option comparison algorithm, `<select>` supports `compareWith` input. `compareWith` takes a `function` which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects options by the return value of the function. `compareWith` can compare any object identity. It's possible for the identities of items to change while the data doesn't. This can happen, for example, if the items are produced on an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced on an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, then second response will produce objects with different identities.

Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced on an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, then second response will produce objects with different identities.
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```typescript
function *An registerOnTouched(fn: fn; (any): void) { this.onTouched = fn; } /**\n * Sets the \"disabled\" property on the select input element. */ *An * @param isDisabled The disabled value
 *An setDisabledState(isDisabled: boolean): void { this._renderer.setProperty(this._elementRef.nativeElement,
 'disabled', isDisabled); } /* */ *An internal *An _registerOption(): string { return (this._idCounter++).toString(); }

/* */ *An internal *An _getOptionId(value: any): string|null { return (this._idCounter++).toString(); }

/* */ *An internal *An _getOptionValue(valueString: string): any { return (this._idCounter++).toString(); }

/publicApi */ *An@Directive({selector: \"option\"})@export class NgSelectOption implements OnDestroy { /* */ *An * @description
 * ID of the option element
 */ *An // TODO(issues/24571): remove \
"id": string;*

constructor(private_element: ElementRef, private_renderer: Renderer2, @Optional() @Host() private

_select: SelectControlValueAccessor) { /* */ *An * @description
 * Lifecycle method called before the directive's instance is
 * destroyed. For internal use only.
 */ *An ngOnDestroy(): void { /* */ *An if (this._select) { */

this._select._optionMap.delete(this.id); this._select.writeValue(this._select.value); /* */ *An
}

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style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive,

ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as

looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from

'./control_value_accessor';

export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = { /* */ *An provide: NG_VALUE_ACCESSOR,

useExisting: forwardRef(() => SelectMultipleControlValueAccessor),

multi: true
};

function _buildValueString(id: string, value: any): string { return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string { return valueString.split(':') [0];
}

/**
 * Marks \"option\" as dynamic, so Angular can be notified when options change.
 */
@Directive({selector: '\select\[multiple\][formControlName],\select\[multiple\][formControl],\select\[multiple\][ngModel]',

host: {

'\(\text{change}\):'

'onChange(\text{event.target},')

',\(\text{blur}\):

'onTouched()'}

 providers:
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The current value
   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();

  /** @internal */
  _idCounter: number = 0;

  /** @internal */
  _registerOption(value: ɵNgSelectMultipleOption): string {
    const id = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
  }

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id)!.value, value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id)!.value : valueString;
  }
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove '!'.
  id!: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option
   * element. Unlike the value binding,
   * ngValue supports binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Tracks simple string values bound to the option element.
   * For objects, use the `ngValue` input binding.
   */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
    }
  }
}

[SELECT_MULTIPLE_VALUE_ACCESSOR]
(control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);\n  if (control.updateOn !== 'submit') control.markAsTouched();\n\n\nfunction updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
  control._pendingChange = false;\n}\n
function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor!.writeValue(newValue);\n    // control -> ngModel\n    if (emitModelEvent) dir.viewToModelUpdate(newValue);\n  });\n}\n
function setUpFormContainer(control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName): void {
  if (control == null) _throwError(dir, 'Cannot find control with');\n  control.validator = Validators.compose([control.validator, dir.validator]);\n  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);\n  control.validator = Validators.compose(validators: \n    Validators.compose(validators: [control.validator, dir.validator]);\n  control.asyncValidator = Validators.compose(validators: \n    Validators.composeAsync([control.asyncValidator, dir.asyncValidator]));\n  control._syncPendingControls();\n  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });\n}\n
// TODO: vsavkin remove it once
export function selectValueAccessor(dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;

  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');\n
  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtinAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)
        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      builtinAccessor = v;
    } else if (customAccessor) {
      if (customAccessor)
        _throwError(dir, 'More than one custom value accessor matches form control with');\n      customAccessor = v;
    } else {
      _throwError(dir, 'No valid value accessor for form control with');\n    }
  });\n
  return (v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;\n    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)\n        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      builtinAccessor = v;\n    } else if (customAccessor)\n        _throwError(dir, 'More than one custom value accessor matches form control with');\n    customAccessor = v;\n  };\n}\n
export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (!isPropertyUpdated(change)) return true;
  return !looseIdentical(viewModel, change.currentValue);
}\n
const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];\n
export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);\n}\n
export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();\n  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });\n}\n
// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented\n\n\nexport function selectValueAccessor(dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;

  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');\n
  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtinAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;\n    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)\n        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      builtinAccessor = v;\n    } else if (customAccessor)\n        _throwError(dir, 'More than one custom value accessor matches form control with');\n    customAccessor = v;\n  });\n
  return (v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;\n    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)\n        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      builtinAccessor = v;\n    } else if (customAccessor)\n        _throwError(dir, 'More than one custom value accessor matches form control with');\n    customAccessor = v;\n  };\n}\n
export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (!isPropertyUpdated(change)) return true;
  return !looseIdentical(viewModel, change.currentValue);
}\n
const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];\n
export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);\n}\n
export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();\n  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });\n}\n
// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented

instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
  }
  type._ngModelWarningSentOnce = true;
  instance._ngModelWarningSent = true;
}

/**
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 * Use of this source code is governed by a MIT-style license
 * that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and
 * errors are not yet available for the input value.
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor calculations of validity or value.
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[[name] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn
      | ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) : validator ||
null;
}

function coerceToAsyncValidator(
    asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn
      | AsyncValidatorFn | null;

  return Array.isArray(origAsyncValidator) ?
        composeAsyncValidators(origAsyncValidator) :
                                             origAsyncValidator ||
null;
}

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an `AbstractControl`.
 */
export interface AbstractControlOptions {
  /**
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * The event name for control to update upon.
   */
  updateOn?: 'change'|'blur'|'submit';
}

/**
 * This is the base class for FormControl, FormGroup, and FormArray.
 */
export abstract class AbstractControl {

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn !:
FormHooks;\n\n // TODO(issue/24571): remove '!'.\n private _parent !: FormGroup | FormArray;\n private
_asyncValidationSubscription: any;\n\n /**\n * The current value of the control.\n *\n * * For a `FormControl`,
the current value.\n * * For an enabled `FormGroup`, the values of enabled controls as an object\n * with a keyvalue pair for each member of the group.\n * * For a disabled `FormGroup`, the values of all controls as an object\n
* with a key-value pair for each member of the group.\n * * For a `FormArray`, the values of enabled controls as
an array.\n *\n */\n public readonly value: any;\n\n /**\n * Initialize the AbstractControl instance.\n *\n *
@param validator The function that determines the synchronous validity of this control.\n * @param
asyncValidator The function that determines the asynchronous validity of this\n * control.\n */\n
constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}\n\n /**\n * The
parent control.\n */\n get parent(): FormGroup|FormArray { return this._parent; }\n\n /**\n * The validation
status of the control. There are four possible\n * validation status values:\n *\n * * **VALID**: This control has
passed all validation checks.\n * * **INVALID**: This control has failed at least one validation check.\n * *
**PENDING**: This control is in the midst of conducting a validation check.\n * * **DISABLED**: This control
is exempt from validation checks.\n *\n * These status values are mutually exclusive, so a control cannot be\n *
both valid AND invalid or invalid AND disabled.\n */\n // TODO(issue/24571): remove '!'.\n public readonly
status !: string;\n\n /**\n * A control is `valid` when its `status` is `VALID`.\n *\n * @see {@link
AbstractControl.status}\n *\n * @returns True if the control has passed all of its validation tests,\n * false
otherwise.\n */\n get valid(): boolean { return this.status === VALID; }\n\n /**\n * A control is `invalid` when
its `status` is `INVALID`.\n *\n * @see {@link AbstractControl.status}\n *\n * @returns True if this control
has failed one or more of its validation checks,\n * false otherwise.\n */\n get invalid(): boolean { return
this.status === INVALID; }\n\n /**\n * A control is `pending` when its `status` is `PENDING`.\n *\n * @see
{@link AbstractControl.status}\n *\n * @returns True if this control is in the process of conducting a validation
check,\n * false otherwise.\n */\n get pending(): boolean { return this.status == PENDING; }\n\n /**\n * A
control is `disabled` when its `status` is `DISABLED`.\n *\n * Disabled controls are exempt from validation
checks and\n * are not included in the aggregate value of their ancestor\n * controls.\n *\n * @see {@link
AbstractControl.status}\n *\n * @returns True if the control is disabled, false otherwise.\n */\n get disabled():
boolean { return this.status === DISABLED; }\n\n /**\n * A control is `enabled` as long as its `status` is not
`DISABLED`.\n *\n * @returns True if the control has any status other than 'DISABLED',\n * false if the status
is 'DISABLED'.\n *\n * @see {@link AbstractControl.status}\n *\n */\n get enabled(): boolean { return
this.status !== DISABLED; }\n\n /**\n * An object containing any errors generated by failing validation,\n * or
null if there are no errors.\n */\n // TODO(issue/24571): remove '!'.\n public readonly errors !: ValidationErrors |
null;\n\n /**\n * A control is `pristine` if the user has not yet changed\n * the value in the UI.\n *\n * @returns
True if the user has not yet changed the value in the UI; compare `dirty`.\n * Programmatic changes to a control's
value do not mark it dirty.\n */\n public readonly pristine: boolean = true;\n\n /**\n * A control is `dirty` if the
user has changed the value\n * in the UI.\n *\n * @returns True if the user has changed the value of this control
in the UI; compare `pristine`.\n * Programmatic changes to a control's value do not mark it dirty.\n */\n get
dirty(): boolean { return !this.pristine; }\n\n /**\n * True if the control is marked as `touched`.\n *\n * A control
is marked `touched` once the user has triggered\n * a `blur` event on it.\n */\n public readonly touched: boolean =
false;\n\n /**\n * True if the control has not been marked as touched\n *\n * A control is `untouched` if the user
has not yet triggered\n * a `blur` event on it.\n */\n get untouched(): boolean { return !this.touched; }\n\n /**\n
* A multicasting observable that emits an event every time the value of the control changes, in\n * the UI or
programmatically. It also emits an event each time you call enable() or disable()\n * without passing along
{emitEvent: false} as a function argument.\n */\n // TODO(issue/24571): remove '!'.\n public readonly
valueChanges !: Observable<any>;\n\n /**\n * A multicasting observable that emits an event every time the
validation `status` of the control\n * recalculates.\n *\n * @see {@link AbstractControl.status}\n *\n */\n //
TODO(issue/24571): remove '!'.\n public readonly statusChanges !: Observable<any>;\n\n /**\n * Reports the
update strategy of the `AbstractControl` (meaning\n * the event on which the control updates itself).\n * Possible
values: `'change'` | `'blur'` | `'submit'`\n * Default value: `'change'`\n */\n get updateOn(): FormHooks {\n return

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this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change');

/**
 * @param {any} value - The value for which to validate.
 * @param {any} newValidators - The new validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
setValidators(value, newValidators, onlySelf, defaultOptions) { this._validate(value, newValidators, onlySelf, defaultOptions); }

/**
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
setAsyncValidators(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * @param {any} value - The value for which to validate.
 * @param {any} syncValidators - The sync validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
setSyncValidators(value, syncValidators, onlySelf, defaultOptions) { this._validate(value, syncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control as `touched`. A control is touched by focus and blur events that do not change the
 * value.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsTouched(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control and all its descendant controls as `touched`.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAllAsTouched(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control as `untouched`.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsUntouched(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control as `dirty`. A control becomes dirty
 * when its value is changed through the UI; compare `markAsTouched`.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsDirty(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control as `pristine`.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsPristine(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * Marks the control as `pending`.
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsPending(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsPendingDirty(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsPendingInvalid(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }

/**
 * @param {any} value - The value for which to validate.
 * @param {any} asyncValidators - The async validators.
 * @param {boolean} [onlySelf] - Whether to apply the change to the current control only or to all
 * descendant controls as well.
 * @param {any} [defaultOptions] - Default options for the validators.
 * @returns {void}
 */
markAsPendingInvalidDirty(value, asyncValidators, onlySelf, defaultOptions) { this._validate(value, asyncValidators, onlySelf, defaultOptions); }
marking is applied. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false. When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending. When false, no events are emitted.

```javascript
* `markAsPending`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
```
observables emit events with the latest status and value when the control is updated. When false, no events are emitted.

```javascript
*An updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  if (this.enabled) {
    this._cancelExistingSubscription();
    (this as{errors: ValidationErrors | null}).errors = this._runValidator();
    (this as{status: string}).status = this._calculateStatus();
    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(opts.emitEvent);
    }
    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
    }
  }

  this._setInitialStatus();
  this._updateValue();

  if (this.enabled) {
    this._cancelExistingSubscription();
    (this as{errors: ValidationErrors | null}).errors = this._runValidator();
    (this as{status: string}).status = this._calculateStatus();
    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(opts.emitEvent);
    }
    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
    }
  }

  this._setInitialStatus();
  this._updateValue();

  if (this.enabled) {
    this._cancelExistingSubscription();
    (this as{errors: ValidationErrors | null}).errors = this._runValidator();
    (this as{status: string}).status = this._calculateStatus();
    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(opts.emitEvent);
    }
    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
    }
  }
```

Another way to update the value and validity of a control:

```javascript
this.value = newValue;
this.updateValueAndValidity();
```

This will update the value and validity of the control. If the control is not enabled, it will not emit any events.

```javascript
this.updateValueAndValidity();
```

This will update the value and validity of the control. If the control is not enabled, it will not emit any events.

```javascript
this.value = newValue;
this.updateValueAndValidity({onlySelf: true, emitEvent: true});
```

This will update the value and validity of the control. If the control is not enabled, it will not emit any events. If onlySelf is true, it will not update the parent control.

```javascript
this.value = newValue;
this.updateValueAndValidity({onlySelf: true, emitEvent: true});
```

This will update the value and validity of the control. If the control is not enabled, it will not emit any events. If onlySelf is true, it will not update the parent control.

```javascript
this.value = newValue;
this.updateValueAndValidity({onlySelf: true, emitEvent: true});
```

This will update the value and validity of the control. If the control is not enabled, it will not emit any events. If onlySelf is true, it will not update the parent control.
given path.

* If the control is not present, false is returned.

 */

  hasError(errorCode: string, path?: Array<string|number>|string): boolean {
    return !!this.getError(errorCode, path);
  }

  /**
   * Retrieves the top-level ancestor of this control.
   */
  get root(): AbstractControl {
    let x: AbstractControl = this;

    while (x._parent) {
      x = x._parent;
    }

    return x;
  }

  /** @internal */
  _updateControlsErrors(emitEvent: boolean): void {
    (this as{status: string}).status = this._calculateStatus();

    if (emitEvent) {
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }

    if (this._parent) {
      this._parent._updateControlsErrors(emitEvent);
    }

    /** @internal */
  _initObservables() {
    (this as{valueChanges: Observable<any>}).valueChanges = new EventEmitter();
    (this as{statusChanges: Observable<any>}).statusChanges = new EventEmitter();
  }

  private _calculateStatus(): string {
    if (this._allControlsDisabled()) return DISABLED;
    if (this.errors) return INVALID;
    if (this._anyControlsHaveStatus(PENDING)) return PENDING;
    if (this._anyControlsHaveStatus(INVALID)) return INVALID;
    return VALID;
  }

  /** @internal */
  abstract _updateValue(): void;

  /** @internal */
  abstract _forEachChild(cb: Function): void;

  /** @internal */
  abstract _anyControls(condition: Function): boolean;

  /** @internal */
  abstract _allControlsDisabled(): boolean;

  /** @internal */
  abstract _syncPendingControls(): boolean;

  /** @internal */
  _anyControlsHaveStatus(status: string): boolean {
    return this._anyControls((control: AbstractControl) => control.status === status);
  }

  /** @internal */
  _anyControlsDirty(): boolean {
    return this._anyControls((control: AbstractControl) => control.dirty);
  }

  /** @internal */
  _anyControlsTouched(): boolean {
    return this._anyControls((control: AbstractControl) => control.touched);
  }

  /** @internal */
  _updatePristine(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = !this._anyControlsDirty();

    if (this._parent && !opts.onlySelf) {
      this._parent._updatePristine(opts);
    }

  /** @internal */
  _updateTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = this._anyControlsTouched();

    if (this._parent && !opts.onlySelf) {
      this._parent._updateTouched(opts);
    }

  /** @internal */
  _onDisabledChange: Function[] = [];

  /** @internal */
  _isBoxedValue(formState: any): boolean {
    return typeof formState === 'object' && formState !== null &&
        Object.keys(formState).length === 2 && 'value' in formState &&
        'disabled' in formState;
  }

  /** @internal */
  _registerOnCollectionChange(fn: () => void): void {
    this._onCollectionChange = fn;
  }

  /** @internal */
  _setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
    if (isOptionsObj(opts) && (opts as AbstractControlOptions).updateOn != null) {
      this._updateOn = (opts as AbstractControlOptions).updateOn !;
    }

    /**
     * Check to see if parent has been marked artificially dirty.
     * @internal
     */
  private _parentMarkedDirty(onlySelf?: boolean): boolean {
    return !onlySelf && (this._parent && !this._parent._anyControlsDirty());
  }

  /**
   * Tracks the value and validation status of an individual form control.
   *
   * This is one of the three fundamental building blocks of Angular forms, along with `FormGroup` and `FormArray`. It extends the `AbstractControl` class that implements most of the base functionality for accessing the value, validation status, user interactions and events.
   *
   * @see `AbstractControl`
   * @see [Reactive Forms Guide](guide/reactive-forms)
   * @see [Usage Notes](#usage-notes)
   *
   * ### Initializing Form Controls
   *
   * Instantiate a `FormControl`, with an initial value.
   *
   * ```ts
   * const control = new FormControl('some value');
   * console.log(control.value);     // 'some value'
   *```
   *
   * The following example initializes the control with a form state object. The `value` and `disabled` keys are required in this case.
   *
   * ```ts
   * const control = new FormControl({ value: 'n/a', disabled: true });
   * console.log(control.value);     // 'n/a'
   *```
   *
   * `DISABLED` is a custom mark for the `control` object initialized with a sync validator.
   *
   * ```ts
   * const control = new FormControl('', Validators.required);
   * console.log(control.value);     // ''
   *```
   *
   * Set the `updateOn` option to `blur` to update on the blur event:
   *
   * ```ts
   * const control = new FormControl('', { updateOn: 'blur' });
   * console.log(control.value);     // ''
   *```
   *
   * Set the `updateOn` option to `submit` to update on the blur event:
   *
   * ```ts
   * const control = new FormControl('', { updateOn: 'submit' });
   * console.log(control.value);     // ''
   *```
Set the `updateOn` option to `"submit"` to update on a submit event.

```ts
const control = new FormControl('', { updateOn: 'submit' });
```

You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state

```ts
const control = new FormControl('Nancy');
```

### Reset the control back to an initial value

```ts
control.reset();
```

### Reset the control back to an initial value and disabled

```ts
control.reset({ value: 'Drew', disabled: true });
```

### Methods

- `setValue`: Sets a new value for the control.
- `patchValue`: Patches the value of a control.
- `reset`: Resets the form control, marking it `pristine` and `untouched`, and setting the value to null.

### Constructor

```ts
constructor(formState: any = null,
            validatorOrOpts: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
            asyncValidator: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(validatorOrOpts, asyncValidator);
    this._applyFormState(formState);
    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
    this._initObservables();
}
```

### Configuration Options

- `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.
- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.
- `emitModelToViewChange`: When true or not supplied (the default), each change triggers an event.
- `emitViewToModelChange`: When true or not supplied (the default), each change triggers an event.

### Update Strategy

```ts
this._applyFormState(formState);
```

### Initialization

```ts
this._initObservables();
```

### Observables

```ts
this.updateValueAndValidity();
```

### Form Control

```ts
this.updateValueAndValidity(options);
```

### Form State

```ts
this.reset(formState: any = null, options: { onlySelf?: boolean });
```
control.value; 
} 
return acc; 
} 
} 

/** @internal */ 
_reduceChildren(initValue: any, fn: Function) { 
  let res = initValue; 
  this._forEachChild(control: AbstractControl, name: string) => { 
    res = fn(res, control, name); 
  }; 
  return res; 
} 

/** @internal */ 
_allControlsDisabled(): boolean { 
  for (const controlName of Object.keys(this.controls)) { 
    if (this.controls[controlName].enabled) { 
      return false; 
    } 
  } 
  return Object.keys(this.controls).length > 0 || this.disabled; 
} 

/** @internal */ 
_checkAllValuesPresent(value: any): void { 
  this._forEachChild(control: AbstractControl, name: string) => { 
    if (value[name] === undefined) { 
      throw new Error(`Must supply a value for form control with name: 
'$name'.`); 
    } 
  }; 
} 

class FormArray extends AbstractControl { 
  /** 
   * Creates a new `FormArray` instance.
   *
   * @param controls An array of child controls. Each child control is given an index
   * where it is registered.
   *
   * @param validatorOrOpts A synchronous validator function, or an array of
   * such functions, or an
   * `AbstractControlOptions` object that contains validation functions
   * and a validation trigger.
   * @param asyncValidator A single async validator or array of async validator functions
   */ 
  constructor( 
    public controls: AbstractControl[],
    validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
        coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  /** 
   * Get the `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to retrieve the control
   */ 
  at(index: number): AbstractControl { return this.controls[index]; }

  /** 
   * Insert a new `AbstractControl` at the end of
   * the array.
   *
   * @param control Form control to be inserted
   */ 
  insert(index: number, control: AbstractControl): void { 
    this.controls.push(control); 
    this._registerControl(control); 
    this.updateValueAndValidity();
  } 

  /** 
   * Remove the control at the given `index` in the array.
   *
   * @param index Index in the array to remove the control
   */ 
  removeAt(index: number): void { 
    if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {}); 
    this.controls.splice(index, 1); 
    this.updateValueAndValidity();
  } 
}
`onlySelf`: When true, each change only affects this control, and not its parent. Default is false.

Options that determine how the control propagates changes and emits events after the value changes:

- `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. When false, no events are emitted.

The configuration options are passed to the `FormArray#updateValueAndValidity` method.

```
this.controls.splice(index, 1); this.updateValueAndValidity();
```

Replace an existing control.

```
* @param index Index in the array to replace the control
* @param control The `AbstractControl` control to replace the existing control
```

SetControl(index: number, control: AbstractControl): void {

    // (this.controls[index]) this.controls[index].registerOnCollectionChange((e => {}));
    this.controls.splice(index, 1);
    if (control) {
        this.controls.splice(index, 0, control);
        this._registerControl(control);
    }

    this.updateValueAndValidity();
}
```

Length of the control array.

```
this._onCollectionChange();
```

This method performs strict checks, and throws an error if you try to set the value of a control that doesn't exist or if you exclude the value of a control.

Set values for the controls in the form array.

```
const arr = new FormArray([n * new FormControl(), n * new FormControl()]);
```

Sets the value of the `FormArray`. It accepts an array that matches the structure of the control.

```
this._checkAllValuesPresent(value);
```

This function checks if all values present.

```
value.forEach(newValue: any, index: number) => {
```

Updates the value in the control.

```
this._throwIfControlMissing(index);
```

Throws an error if the control is missing.

```
this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
```

Sets the value of the control.

### Patch the values for controls in a form array

```
const arr = new FormArray([n * new FormControl(), n * new FormControl()]);
```

Sets the value of the controls in a form array.

```
const arr = new FormArray([n * new FormControl(), n * new FormControl()]);
```

Sets the value of the controls in a form array.

```
arr.patchValue(['Nancy']);
```

Patch the values for controls in a form array.

```
arr.patchValue([n * 'Nancy', 'last name']);
```

Patch the values for controls in a form array.

### Set the values for the controls in the form array

```
const arr = new FormArray([n * new FormControl(), n * new FormControl()]);
```

Sets the value of the controls in a form array.

### Reset the values in a form array

```
arr.reset([n * 'Nancy', 'last name']);
```

Reset the values in a form array.

### Reset the values in a form array

```
arr.reset([n * 'Nancy', 'last name']);
```

Reset the values in a form array.

### Reset the values in a form array

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arr.reset([n * 'Nancy', 'last name']);
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arr.reset([n * 'Nancy', 'last name']);
```

Reset the values in a form array.

### Reset the values in a form array

```
arr.reset([n * 'Nancy', 'last name']);
```

Reset the values in a form array.
`emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset. When false, no events are emitted.

The configuration options are passed to the `AbstractControl.updateValueAndValidity` method.

```typescript
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._forEachChild((control: AbstractControl, index: number) => {
        control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
}
```

### The aggregate value of the array, including any disabled controls.

* For enabled controls only, the `value` property is the best way to get the value of the array.

```typescript
getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
        return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
    });
}
```

### Remove all controls in the `FormArray`.

```typescript
clear(): void {
    if (this.controls.length < 1) return;
    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
    this.controls.splice(0);
    this.updateValueAndValidity();
}
```

### Remove all elements from a FormArray.

```typescript
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.length);  // 2
arr.clear();
console.log(arr.length);  // 0
```

### Remove all elements one by one:

```typescript
const arr = new FormArray([new FormControl(), new FormControl()]);
while (arr.length) {
    arr.removeAt(0);
}
```
directive becomes active by default on all `<form>` tags. You don't need to add a special selector. You optionally export the directive into a local template variable using `ngForm` as the key (ex: `#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying `FormGroup` instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value and validity status of the form, as well as user interaction properties like `dirty` and `touched`. To register child controls with the form, use `NgModel` with a `name` attribute. You may use `NgModelGroup` to create child groups within the form. In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you wouldn't refrain from using the `formGroup` directive.

The following example shows how to configure the form values from the `ngSubmit` event. You will often `FormGroup` or `ReactiveFormModule` imported into the application. If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element unless explicitly set by a child `NgModel` using `ngModelOptions`). Defaults to `true`. Possible values: "change" | "blur" | "submit". The `FormGroup` instance created for this form.

The `form` property is an instance of `FormGroup`. It contains all the child `NgModel` directives that are part of the form.

The `form` property is an instance of `FormGroup`. It contains all the child `NgModel` directives that are part of the form.

**FormOptions**

Tracks options for the `NgForm` instance. Possible values:

- `'change'` | `'blur'` | `'submit'`

These values are used to determine when the form should be submitted. By default, the form is submitted when the `Submit` event is triggered. You can change this behavior by using the `ngSubmitOptions` attribute on the `<form>` element.

- `'change'`
- `'blur'`
- `'submit'`

The `FormOptions` property is an object that contains the options for the form. It is used to determine when the form should be submitted. By default, the form is submitted when the `Submit` event is triggered. You can change this behavior by using the `ngSubmitOptions` attribute on the `<form>` element.

- `'change'`
- `'blur'`
- `'submit'`

The `FormOptions` property is an object that contains the options for the form. It is used to determine when the form should be submitted. By default, the form is submitted when the `Submit` event is triggered. You can change this behavior by using the `ngSubmitOptions` attribute on the `<form>` element.

- `'change'`
- `'blur'`
- `'submit'`

The `FormOptions` property is an object that contains the options for the form. It is used to determine when the form should be submitted. By default, the form is submitted when the `Submit` event is triggered. You can change this behavior by using the `ngSubmitOptions` attribute on the `<form>` element.

- `'change'`
- `'blur'`
- `'submit'`
setUpControl(dir.control, dir);

this._directives.push(dir);

if (container) {
  container.removeControl(dir.name);
}

removeDir<NgModel>(this._directives, dir);

if (container) {
  container.removeControl(dir.name);
}

this._directives.push(dir);

dir.control.updateValueAndValidity({emitEvent: false});

this._directives.push(dir);

/**
 * @description
 * Retrieves the `FormControl` instance from the provided `NgModel` directive.
 *
 * @param dir The `NgModel` directive instance.
 */
getControl(dir: NgModel): FormControl { return <FormControl>this.form.get(dir.path); }

/**
 * @description
 * Removes the `NgModelGroup` directive instance from the form.
 *
 * @param dir The `NgModelGroup` directive instance.
 */
removeControl(dir: NgModel): void { const container = this._findContainer(dir.path);

if (container) {
  container.removeControl(dir.name);
}

this._directives.push(dir);

dir.control.updateValueAndValidity({emitEvent: false});

this._directives.push(dir);

const container = this._findContainer(dir.path);

const group = new FormGroup({});

setUpFormContainer(group, dir);

container.registerControl(dir.name, group);

group.updateValueAndValidity({emitEvent: false});

removeDir<NgModel>(this._directives, dir);

}
internal callback method triggered before the instance is destroyed.
* Removes the group from its parent group.

@ViewChild("ngOnDestroy") void ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeFormGroup(this);
  }
}

/** *
 * The group has been destroyed.
 */
ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeFormGroup(this);
  }
}

/** *
 * The path to this group from the top-level directive.
 */
get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}

/** *
 * @description
 * The `FormGroup` bound to this directive.
 */
get control(): FormGroup {
  return controlPath(this.formDirective, (this.formGroup && !this.formGroup.name) ? this.formGroup.name : "root");
}

/** *
 * @description
 * The top-level directive for this group if present, otherwise null.
 */
get formDirective(): Form|null {
  return this._parent ? this._parent.formDirective : null;
}

/** *
 * @description
 * The synchronous validators registered with this group.
 */
get validator(): ValidatorFn|null {
  return composeValidators(this._validators);
}

/** *
 * @description
 * The asynchronous validators registered with this group.
 */
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}

/** @internal */
_checkParentType(): void {}
OnDestroy {
  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The
   * name corresponds to a key in the parent `NgForm`.
   */
  @Input('ngModelGroup') name !: string;

  constructor(
      @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]
  ) {
    super();
    this._parent = parent;
    this.validators = validators;
    this.asyncValidators = asyncValidators;

    /** * @internal */
    _checkParentType(): void {
      if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
        TemplateDrivenErrors.modelGroupParentException();
      }
    }
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * @description
 * Creates a `FormControl` instance from a domain model and
 * binds it to a form control element.
 *
 * The `FormControl` instance tracks the value, user interaction, and
 * validation status of the control and keeps the view synced with the model. If used
 * within a parent form, the
 * directive also registers itself with the form as a child
 * control.
 *
 * This directive is used by itself or as part of
 * a larger form. Use the
 * `ngModel` selector to activate it.
 *
 * It accepts a domain model as an optional `Input`.
 * If you have a one-way binding
 * to `ngModel` with `[ ]` syntax, changing the value of the domain model in the
 * component
 * class sets the value in the view. If you have a two-way binding with `[ ]`
 * syntax
 * (also known as `banana-box syntax`), the value in the UI always syncs back to
 * the domain model in your class.
 *
 * To inspect the properties of the associated `FormControl` (like validity state),
 * export the directive into a local template variable using `ngModel` as the key (ex: `#myVar="ngModel"`) in
 * You then access the control using the
 * directive's `control` property.
 * but most properties used (like `valid` and `dirty`) fall through to the control
 * anyway for direct access.
 * See a full list of properties directly available in `AbstractControlDirective` in
 * `radioControlValueAccessor` and `selectControlValueAccessor`.
 *
 * Using `ngModel` on a standalone control
 * The following examples show a simple standalone control using
 * `ngModel`:
 * @example forms/ts/simpleNgModel/simple_ng_model_example.ts region=Component
 * When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute
 * so that the control can be registered with the parent form under that name.
 * In the context of a parent form, it's often unnecessary to include one-way or two-way binding,
 * as the parent form syncs the value for you.
 * You access its properties by exporting it into a local template variable using `ngForm` such as
 * Use the variable where
 * If you do need to populate initial values into your form,
 * using a one-way binding for
 * `ngModel` tends to be sufficient as long as you use the exported form's value.
rather than the domain model's value on submit. The following example shows controls using `ngModel` within a form:

```html
<input name="login" ngModel placeholder="Login">
```

### Using ngModel within a form

The following example shows how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data:

```html
<form>
  <input name="login" ngModel placeholder="Login">
</form>
```

### Using a standalone ngModel within a group

The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [
  `ngModelOptions={standalone: true}`]>
  Show more options?
</form>
```

### Setting the ngModel name attribute through options

The following example shows you how to set the name attribute:

```html
<form>
  <input name="login" ngModel placeholder="Login">
</form>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name ``@Input` property serves a different purpose:

```html
<form>
  <input name="login" ngModel placeholder="Login">
</form>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute ``@Input` property serves a different purpose:

```html
<form>
  <input name="login" ngModel placeholder="Login">
</form>
```
this.formDirective && this.formDirective.removeControl(this); }\n
/**
 * @description
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 */\nget path(): string[] {\n  return this._parent ? controlPath(this.name, this._parent) : [this.name];\n}

/**
 * @description
 * The top-level directive for this control if present, otherwise null.
 */\nget formDirective(): any {\n  return this._parent ? this._parent.formDirective : null;\n}

/**
 * @description
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.
 */\nget validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }\n
/**
 * @description
 * Async validator function composed of all the async validators registered with this
 */\nget asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._rawAsyncValidators); }

/**
 * @description
 * Sets the new value for the view model and emits an `ngModelChange` event.
 */\nviewToModelUpdate(newValue: any): void {\n  this.viewModel = newValue;\n  this.update.emit(newValue);
}

private _setUpControl(): void {\n  this._setUpUpdateStrategy();\n  this._isStandalone() ? this._setUpStandalone() : this.formDirective.addControl(this);\n  this._registered = true;
}

private _setUpUpdateStrategy(): void {\n  if (this.options && this.options.updateOn != null) {\n    this.control._updateOn = this.options.updateOn;
  }
}

private _isStandalone(): boolean {\n  return !this._parent || !!(this.options && this.options.standalone);
}

private _setUpStandalone(): void {\n  setUpControl(this.control, this);
  this.control.updateValueAndValidity({emitEvent: false});
}

private _checkForErrors(): void {\n  if (!this._isStandalone()) {\n    this._checkParentType();
  }
  this._checkName();
}

private _checkParentType(): void {\n  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {\n    TemplateDrivenErrors.formGroupNameException();\n  } else if ( !(this._parent instanceof NgModelGroup) &&
       !(this._parent instanceof NgForm) ) {\n    TemplateDrivenErrors.modelParentException();\n  }
}

private _checkName(): void {\n  if (this.options && this.options.name) this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {\n    TemplateDrivenErrors.missingNameException();\n  }
}

private _updateValue(value: any): void {\n  resolvedPromise.then(() => {\n    this.control.setValue(value, {emitViewToModelChange: false});
  });
}

private _updateDisabled(changes: SimpleChanges) {\n  const isDisabled = changes['isDisabled'].currentValue;
  if (isDisabled &\n      this.control.disabled) {\n    this.control.disable();\n  } else if (isDisabled &\n      !this.control.disabled) {\n    this.control.enable();\n  }
}

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * `novalidate` is used to disable browser’s native form validation.
 *
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
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```typescript
{FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from
'../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from
'../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING =
    new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element
 * ```html
 * <input [formControl]='control' [(ngModel)='value']>
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import
time:

 * ```ts
 * import {ReactiveFormsModule} from '@angular/forms';
 * import { NgModule } from '@angular/core';
 * 
 * @NgModule({
 *   imports: [
 *     ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl:
 *         'never'}),
 *   ],
 * })
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `"always"`. This may help to track down where in the code
 * the pattern is being used as the code is being updated.

 * ```ts
 * import {ReactiveFormsModule} from '@angular/forms';
 * import { NgModule } from '@angular/core';
 * 
 * @NgModule({
 *   imports: [
 *     ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl:
 *         'always'}),
 *   ],
 * })
 * ```
 *
 * To update your code before support is removed, you'll want to decide whether to stick
 * with reactive form directives (and get/set values using reactive forms patterns) or
 * switch over to template-driven directives.

 * * After (choice 1 - use reactive forms):
 * ```html
 * <input [formControl]='control'>
 * ```
 *
 * ```ts
 * this.control.setValue('some value');
 * ```
 *
 * * After (choice 2 - use template-driven forms):
 * ```html
 * <input [(ngModel)]='value'>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import
time:

 * ```ts
 * import {ReactiveFormsModule} from '@angular/forms';
 * import { NgModule } from '@angular/core';
 * 
 * @NgModule({
 *   imports: [
 *     ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl:
 *         'never'}),
 *   ],
 * })
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `"always"`. This may help to track down where in the code
 * the pattern is being used as the code is being updated.

 * ```ts
 * import {ReactiveFormsModule} from '@angular/forms';
 * import { NgModule } from '@angular/core';
 * 
 * @NgModule({
 *   imports: [
 *     ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl:
 *         'always'}),
 *   ],
 * })
 * ```
 *
 * To update your code before support is removed, you'll want to decide whether to stick
 * with reactive form directives (and get/set values using reactive forms patterns) or
 * switch over to template-driven directives.
```
* particular `FormControlDirective` instance. Used to support warning config of `\always\`. *
* @internal
*\_\_ngModelWarningSent = false;\nconstructor(@Optional() @Self() @Inject(NG_VALIDATORS)
validators: Array<Validator|ValidatorFn>,\n@Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n@Optional() @Self() @Inject(NG_VALUE_ACCESSOR)
valueAccessors: ControlValueAccessor[],\n@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {\n  super();\n  this._rawValidators = validators;\n  this._rawAsyncValidators = asyncValidators;\n  this.valueAccessor = selectValueAccessor(this, valueAccessors);\n  this._ngModelWarningConfig = _ngModelWarningConfig;\n}

/**
 * @description
 * A lifecycle method called when the directive's inputs change. For internal use
 * only.\n * @param changes A object of key/value pairs for the set of *\n * ngOnChanges changes: SimpleChanges): void \n * if (this._isControlChanged(changes)) \n * setUpControl(this.form, this);\n * if (this.control.disabled && this.valueAccessor!.setDisabledState(!true));\n * this.form.updateValueAndValidity((emitEvent: false));\n * if (isPropertyUpdated(changes, this.viewModel)) \n * _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);\n * this.form.setValue(this.model);\n * this.viewModel = this.model;\n */

defined?

/**
 * @description
 * Returns an array that represents the path from the top-level form to this control.\n * Each index is the string name of the control on that level.\n * get path(): string[] { return []; }\n *\_\_ngModelWarning = \'
 * formControl' FormControlDirective, this, \_\_ngModelWarningConfig);\n */

defined?

/**
 * @description
 * Synchronous validator function composed of all the synchronous validators\n * registered with this directive.\n */

defined?

/**
 * @description
 * Async validator\n * function composed of all the async validators registered with this directive.\n */

defined?

/**
 * The `FormControl` bound to this directive.\n */

defined?

/**
 * Sets the new value for the view model and emits an `ngModelChange` event.\n * @param newValue The new value for the view model.\n */

defined?
ReactiveFormsModule

```typescript
@Directive({
  selector: '[formGroup]',
  providers: [
    FormGroupProvider
  ],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form,
OnChanges {

/**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _oldForm: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  form: FormGroup !;  // TODO(issue/24571): remove '!'.

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self()
      private _validators: any[] = [],
      @Optional() @Self()
      private _asyncValidators: any[] = []
  ) {
    super();
  }

  ngOnChanges(changes: SimpleChanges) {
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  updateModel(dir: FormControlName, value: any) {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  }
}
```

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as its payload.

```typescript
/**
 * @param event The \"submit\" event object
 */
onSubmit(event: Event): boolean {
    (this as [submitted: boolean]).submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit(event);
    return false;
}

/**
 * @param event The \"reset\" event object
 */
onReset(event: Event): void {
    (this as [submitted: boolean]).submitted = false;
}

/**
 * @param value The new value for the form
 */
resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as [submitted: boolean]).submitted = false;
}

private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
}

private _updateValidators() {
    const sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator!, sync!]);

    const async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, async!]);
}

private _checkFormPresent() {
    if (!this.form) {
        ReactiveErrors.missingFormException();
    }
}

*/

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {AsyncValidatorFn, ValidatorFn} from '../validators';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroupDirective`.
 *
 * It accepts a name as a string or a number.
 * The name in the form of a string is useful for individual forms,
 * while the numerical form allows
 * for form groups to be bound to indices when iterating over groups in a `FormArray`.
 *
 * The following example uses the `@link AbstractControl#get` method to access the
 * associated `FormGroup`
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * The following example uses the `@link AbstractControl#get` method to access individual controls
 * within the group using dot syntax.
 *
 * ```ts
 *   this.form.get('name.first');
 * ```
 *
 * The following example registers a nested `FormGroup` within an existing `FormGroup`.
 * It accepts a name as a string or a number.
 * The name in the form of a string is useful for individual forms,
 * while the numerical form allows
 * for form groups to be bound to indices when iterating over groups in a `FormArray`.
 *
 * @ngModule
 * ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[formGroupName]', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {

  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive.
   * Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms,
   * while the numerical form allows
   * for form groups to be bound to indices when iterating over groups in a `FormArray`.
   */

  @Input('formGroupName') name!: string | number | null;

  constructor(
    @Optional() @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
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    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[],
    @Opt
asyncValidators: any[]}

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) { ReactiveErrors.groupParentException(); }
  }

export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 *
 * This directive is designed to be used with a parent `FormGroupDirective` (selector: `*[formGroup]`).
 * It accepts the string name of the nested `FormArray` you want to link, and it will look for a `FormArray`
 * registered with that name in the parent `${*formGroup}` instance you passed into `FormGroupDirective`. stun
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Example
 *
 * @example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component'
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '

*formArrayName', providers: [formArrayNameProvider()])
export class FormArrayName extends ControlContainer implements OnInit,
OnDestroy {
  /** @internal */
  _parent: ControlContainer;

  /** @internal */
  _validators: any[];

  /**
   * Tracks the name of the `FormArray` bound to this directive. The name corresponds
   * to a key in the parent `FormGroup` or `FormArray`. Accepts a
   * name as a string or a number. The name in the form of a string is useful for individual forms, stun
   * while the numerical form allows for form arrays to be bound to indices when iterating over arrays in a 'FormArray'.
   *
   * @description
   * @throws If the directive does not have a valid
   * @parent. A lifecycle method called when the directive's inputs are initialized. For internal use only.
   *
   * @throws If the directive does not have a valid
   * @parent. A lifecycle method called before the directive's instance is destroyed. For internal
   * use only.
   *
   * @description
   * A synchronous validator function composed of all the synchronous validators registered with this
   * directive.
   *
   * @description
   * An Async validator function composed of all the async validators registered with this directive.
   */
  get validator(): ValidatorFn
  get asyncValidator(): AsyncValidatorFn

  private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) { ReactiveErrors.arrayParentException(); }
  }

  function _hasInvalidParent(parent: ControlContainer):

  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
'../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';
import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from '../form_control_directive';
import {FormControlName, FormGroupName} from '../form_group_directive';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * This has been deprecated in Angular v6 and will be removed in a future
 * version of Angular.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 *
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form controls within a form
 * and set their value.
 * @example
 * forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
 * @see `formControlName` examples with different form control types, see:
 * @example
 * @ngModule ReactiveFormsModule
 * @publicApi
 */

import {AsyncValidator, AsyncValidatorFn} from '../validators';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Supports using the `ngModel` input property and 'ngModelChange' event with reactive
 * form directives has been deprecated in Angular v6 and will be removed in a future
 * version of Angular.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and 'ngModelChange' event with reactive
 * form directives has been deprecated in Angular v6 and will be removed in a future
 * version of Angular.
 * Now deprecated:
 * ```html
 * <form 
 *   <![formGroup]='form'
 *   ](ngModel)="value">
 *   <input formControlName='first'
 *         [(ngModel)]="value">
 * </form>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * ReactiveFormsModule at import time:
 * ```ts
 * imports:
 * [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})]
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `'always'`. This may help to track down where in the code
 * the pattern is being used as the code is being updated.
 * ```ts
 * @NgModule
 * @publicApi
 * @Directive({
 *   selector: [formGroupName],
 *   providers: [controlNameBinding]
 * })
 * export class FormControlName extends NgControl
 * implements OnChanges, OnDestroy {
 *   private _added = false;
 *   /**
 *    * @description
 *    * Internal reference to
 *    * the view model value.
 *    */
 *   readonly viewModel: any;
 *
 *   /**
 *    * @description
 *    * Tracks the
 *    * `FormControl` instance bound to the directive.
 *    */
 *   readonly control!: FormControl;
 *
 *   /**
 *    * @description
 *    * Triggers a warning that this input should not be used with reactive forms.
 *    */
 *   @Input('disabled')
 *   set isDisabled(isDisabled: boolean) {
 *     ReactiveErrors.disabledAttrWarning();
 *   }
 *   //
TODO(kara): remove next 4 properties once deprecation period is over

```typescript
/** @deprecated as of v6 */

  @Input('ngModel') model: any;

  /** @deprecated as of v6 */
  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @description
   * Static property used to track whether any ngModel warnings have
   * been sent across all instances of FormControlName. Used to support warning config of 'once'.
   */
  static _ngModelWarningSentOnce = false;

  /**
   * @description
   * Instance property used to track whether an ngModel warning has been sent out for this
   * particular FormControlName instance.
   */
  _ngModelWarningSent = false;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators:
          Array<AsyncValidator|AsyncValidatorFn>,
      @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
      @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:
        string|null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this, this.model);
    }
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeControl(this);
    }
  }

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
  }

  get formDirective(): any { return this._parent ? this._parent.formDirective : null; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
  }

  private _checkParentType(): void {
    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
      ReactiveErrors.ngModelGroupException();
    } else if (!
        !(this._parent instanceof FormGroupName) &&
        !(this._parent instanceof FormArrayName)) {
      ReactiveErrors.controlParentException();
    }
  }

  private _setUpControl() {
    this._checkParentType();
    (this as{control: FormControl}).control = this.formDirective.addControl(this);
    if (this.control.disabled && this.valueAccessor !== null) {
      this.valueAccessor.setDisabledState !(true);
    }
    this._added = true;
  }
```

---

```typescript
/**
 * @license
 *
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that
 * can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {Observable} from 'rxjs';

import {AbstractControl} from '../model';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * @description
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a
 * validator directive with a custom error key.
 */
```
CustomValidatorDirective implements Validator

```typescript
@Directive({
  selector: '[customValidator]',
  providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
})
export class CustomValidatorDirective implements Validator {
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true};
  }
}

@publicApi
export interface Validator {
  /**
   * Method that performs synchronous validation against the provided control.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * Registers a callback function to call when the validator inputs change.
   * A method that performs async validation against the provided control.
   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * An interface implemented by classes that perform asynchronous validation.
 * A method that performs async validation against the provided control.
 * A method that performs async validation against the provided control.
 */
export interface AsyncValidator extends Validator {
  /**
   * Method that performs async validation against the provided control.
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null>|
      Observable<ValidationErrors|null>;
}

/**
 * A provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * A provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

/**
 * A directive that adds the `required` validator to any controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */
@Directive({
  selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the required attribute bound to this directive.
   * A directive that adds the `required` validator to any controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
   */
  @Input()
  get required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

  /**
   * Method that validates whether the control is empty.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._required ? Validators.required(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * A method that adds the `required` validator to any controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
   */
  registerOnValidatorChange?(fn: () => void): void;
}
```

---

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```typescript
@Directive({
  selector: '[attr.required]',
  providers: [CHECKBOX_REQUIRED_VALIDATOR],
  host: {
    '[attr.required]': required ? '!' : null
  }
})
export class CheckBoxRequiredValidator extends RequiredValidator {
  /**
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   * @description
   * Validate the checkbox.
   * @return
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.required ? Validators.required(control) : null;
  }
}

/**
 * @description
 * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true
};

/**
 * A directive that adds the `email` validator to controls marked with the `email` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see 
 * @usageNotes
 * @publicApi
 */
@Directive({
  selector: '[email][formControlName], [email][formControl], [email][ngModel]',
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  private _enabled!: boolean;
  private _onChange!: () => void;

  /**
   * Tracks changes to the email attribute bound to this directive.
   * Returns the validation result if enabled, otherwise null.
   * @description
   * Validate the email.
   * @return
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.enabled ? Validators.email(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @description
   * Register the callback function.
   * @param
   * The callback function.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

/**
 * @description
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors | null> | Observable<ValidationErrors | null>;
}

/**
 * @description
 * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors | null> | Observable<ValidationErrors | null>;
}

/**
 * @description
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

/**
 * A directive that adds minimum length validation to controls marked with the `minlength` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see 
 * @usageNotes
 * @publicApi
 */
@Directive({
  selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR]
})
export class MinLengthValidator implements Validator {
  private _validator!: ValidatorFn;
  private _onChange!: () => void;

  /**
   * Tracks changes to the minlength attribute bound to this directive.
   * Returns the validation result if enabled, otherwise null.
   * @description
   * Validate the minlength.
   * @return
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.enabled ? Validators.minLength(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @description
   * Register the callback function.
   * @param
   * The callback function.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}
```

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if ('minlength' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
}

/**
 * @description
 * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null
 */
validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 */
registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
}

/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MAX_LENGTH_VALIDATOR: any = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => MaxLengthValidator),
    multi: true
};

/**
 * A directive that adds max length validation to controls marked with the `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the the maximum length bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value exceeds the maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
        typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}

/**
 * @description
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => PatternValidator),
    multi: true
};

/**
 * A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.
 */
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.pattern != null ? this._validator(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.pattern('^[a-zA-Z ]*$');
  }
}
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```typescript
@NgModule({
  declarations: SHARED_FORM_DIRECTIVES,
  exports:
  SHARED_FORM_DIRECTIVES,
})
export class ɵInternalFormsSharedModule {
}

export {ɵInternalFormsSharedModule as InternalFormsSharedModule};

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 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormGroup`, a `FormArray`, or a `FormControl`.
 * It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param controlsConfig A collection of child controls.
   * The key for each child is the name under which it is registered.
   * @param options Configuration options object for the `FormGroup`.
   * The object can have two shapes:
   * 1) `AbstractControlOptions` object (preferred), which consists of:
     * `validators`: A synchronous validator function, or an array of validator functions
     * `asyncValidators`: A single async validator or array of async validator functions
     * `updateOn`: The event upon which the control should be updated (options: 'change' | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
     * `validator`: A synchronous validator function, or an array of validator functions
     * `asyncValidator`: A single async validator or array of async validator functions
   *
   */
  group(controlsConfig: {[key: string]: any}, options?: AbstractControlOptions| {[key: string]: any}|null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn|ValidatorFn[]|null = null;
    let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;
    let updateOn: FormHooks|undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormGroup(controls, {asyncValidators, updateOn, validators});
  }

  /**
   * Constructs a new `FormControl` with the given state, validators and options.
   *
   * @param formState Initializes the control with an initial value, or with an object that contains both a value and a disabled status.
   *
   * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   *
   * @param asyncValidator A single async validator function, or an array of async validators.
   *
   */
  control(formState: any, validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]): FormControl {
    return new FormControl(formState, validatorOrOpts, asyncValidator);
  }

  /**
   * Constructs a new `FormArray` from the given array of configurations, validators and options.
   *
   * @param controlsConfig An array of child controls or control configs.
   * Each child control is given an index when it is registered.
   * @param options A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   */
  array(controlsConfig: any[], options?: AbstractControlOptions| {[key: string]: any}|null = null): FormArray {
    return new FormArray(controlsConfig, options);
  }
}
```

validator or array of async validator
   * functions;
   */
  array(
      controlsConfig: any[],
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?:
      AsyncValidatorFn|AsyncValidatorFn[]|null)
): FormArray {
  this._createControl(c); // return new FormArray(controls, validatorOrOpts, asyncValidator);
  // @internal *
  _reduceControls(controlsConfig: ([k: string]: any)[]): ([key: string]: AbstractControl) {
    return (controls || Object.keys(controlsConfig).forEach(controlName => {
      const control = this._createControl(controlsConfig[controlName]);
    }));
  }
  /**
   * @internal */
  _createControl(controlConfig: any): AbstractControl {
    if (controlConfig instanceof FormControl
    || controlConfig instanceof FormGroup ||
        controlConfig instanceof FormArray) {
      return controlConfig;

    } else if (Array.isArray(controlConfig)) {
      const value = controlConfig[0];
      const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;
      return this.control(value, validator, asyncValidator);
    } else {
      return this.control(controlConfig);
    }
  }
}
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/**
 * @module
 * @description
 * This module is used for handling user input, by defining and building a
 * `FormGroup` that
 * consists of `FormControl` objects, and mapping them onto the DOM. `FormControl`
 * objects can then be used to read information from the form DOM elements.
 * `FormControl` objects are not included in default providers; you must import these providers
 * explicitly.
 */

export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js.map

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js

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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_no_validate_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstract_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/reactive_directives/form_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/select_multiple_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_container.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/index.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/template_driven_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/template_driven_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/error_examples.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_model.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/index.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/template_driven_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_directives/form_group_name.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/version.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_form.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/reactive_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/form_control_name.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/reactive_directives/form_control_name.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_directives/form_control_name.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/abstract_form_group_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_model_group.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/version.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/forms.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/select_multiple_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/control_container.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/error_examples.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/normalize_validator.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/validators.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/validators.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control_status.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/model.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/model.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/abstract_form_group_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_model_group.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_model.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_model.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/default_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/shared.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/form_interface.js
**1.27 commons-lang3 3.4**

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1.28 jersey-container-servlet 2.25.1
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1.29 swagger-models 1.5.13
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package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
        if (url == null) {
            return false;
        }
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            if (other.name != null) {
                return false;
            }
        }
    }
    return true;
}
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
return true;
}

1.30 xorg-x11-fonts 7.5 9.el7

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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c6f2b6b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.40 jackson-dataformat-xml 2.9.8
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1.47 grub2-tools-extra 2.02-0.76

1.48 angular-ui-sortable 0.17.2
1.48.1 Available under license:

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1.49 swagger-models 1.5.13
1.49.1 Available under license:

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import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
}
private String name;
private String url;

public License name(String name) {
    setName(name);
    return this;
}

public License url(String url) {
    setUrl(url);
    return this;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;

    return result;
int result = 1;
result = prime * result + ((name == null) ? 0 : name.hashCode());
result = prime * result + ((url == null) ? 0 : url.hashCode());
return result;
}

@Override
public boolean equals(Object obj) {
if (this == obj) {
    return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
License other = (License) obj;
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
return true;
}

1.50 spring-boot-autoconfigure
1.5.18.RELEASE

1.51 dataloader 1.0.0
1.51.1 Available under license:

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For DataLoader software

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1.52 angular-bootstrap-datetimepicker 1.1.4

1.52.1 Available under license:

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1.53 symbol-observable 1.2.0

1.53.1 Available under license:

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1.54 json-java 20200518

1.54.1 Available under license:

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1.55 springfox-swagger-ui 2.7.0

1.55.1 Available under license:

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##
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  1-jar/org/springframework/cloud/netflix/archaius/ArchaiusAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1028331603_1591207054.1/0/spring-cloud-netflix-archaius-2-2-0-release-sources-
  1-jar/org/springframework/cloud/netflix/archaius/ArchaiusEndpoint.java

1.89 javassist 3.22.0

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 * $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java
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 * $Header$
 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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* $Revision: 1128 $
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/jdom/XPathNamespace.java
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* $Header$
* $Revision: 1367 $
* $Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java
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$Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultFilterExpr.java
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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $
* /
*
Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultPathExpr.java
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
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* $Revision: 1236$
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006)$
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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* $Header$
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* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/FunctionCallException.java

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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $ */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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 * $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $ 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1.1.6-sources-
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* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
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Found in path(s):
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$Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/NormalizeSpaceFunction.java
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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jar/org/jaxen/function/PositionFunction.java
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/PrecedingAxisIterator.java

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 * $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/dom/DocumentNavigator.java

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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/UnresolvableException.java
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $  
*/  

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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 * $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
  */

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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
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$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
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$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
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$Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java

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 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*
* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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* $Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenConstants.java

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 * $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java

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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/Operator.java
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 * $Revision: 1277 $
 * $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $
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/*/ $Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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 * $Revision: 1222 $
 * $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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* $Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/XPathFunctionContext.java

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/*
$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

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* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultLocationPath.java
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 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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 * $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
 */

Found in path(s):
/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/SAXPathException.java
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 * $Header$
 * $Revision: 1251 $
 * $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: Function.java 1128 2006-02-05 21:49:04Z elharo $
* /$

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Function.java
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* $Revision: 1370 $
* $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java
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* $Id$
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/NodeComparator.java
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 * $Header$
 * $Revision: 1258 $
 * $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $
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 * $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9\0/jaxen-1-1-6-sources.jar/org/jaxen/expr/PredicateSet.java

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* $Revision: 1255 $
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* $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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 * $Revision: 1128 $
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
*
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/FalseFunction.java
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 * $Revision: 1332 $
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$Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $

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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/StackedIterator.java
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo

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$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo$

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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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$Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/base/XPathReader.java
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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sourcesjar/org/jaxen/function/SubstringAfterFunction.java
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/DocumentNavigator.java
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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
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 * $Header$
 * $Revision: 1334 $
 * $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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 * $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.90/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenTypes.java
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/NamespaceUriFunction.java

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$Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.java

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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/XPathExpr.java
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* $Revision: 1226 $
* $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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$Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
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  *
  * $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternHandler.java

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

*/

*/
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultLessThanExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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$Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java
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/*
* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/AllNodeStep.java
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/LogicalExpr.java
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 * $Header$
 * $Revision: 1386 $
 * $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/NumberFunction.java
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* $Header$
* $Revision: 1321 $
* $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
*/

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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Revision: 1234 $
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 * $Header$
 * $Revision: 1154 $
 * $Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) $
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 * $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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* $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/xom/XOMXPath.java
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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/SumFunction.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultGreaterThanExpr.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/StringFunction.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom4j/Dom4jXPath.java
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* $Revision: 1160 $
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$Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
    jar/org/jaxen/function/ContainsFunction.java

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* $Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $ *
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java
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 *
 * $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/function/NameFunction.java

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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $

* Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java

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 * $Header$
 * $Revision: 1171 $
 * $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java

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 * Revision: 1335 $
 * Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultTruthExpr.java

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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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 * $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* * $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
*/

Found in path(s):

/nopt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/XPathSyntaxException.java
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$Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo$

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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.java
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$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* Jaxen Project, please see <http://www.jaxen.org/>
* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
* /

Found in path(s):
*/

/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPredicate.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java

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 * $Revision: 1237 $
 * $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/NumberExpr.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultDivExpr.java
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/CountFunction.java
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $ */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java

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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources- 
  jar/org/jaxen/pattern/NameTest.java
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*
* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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$Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
/

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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
* /

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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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1.102 jackson-module-jaxb-annotations 2.8.9

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.111 httpcomponents-mime 4.5.3

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1.112 spring-security-rsa 1.0.7

1.113 javax-websocket-server-impl
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.116 xmlrpc-server 3.1.3

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1.122 spring-boot-starter-data-cassandra

2.2.4

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1.125 hostname 3.21
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hostname -- set the host name or show the host/domain name

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1.128 commons-beanutils 1.9.3

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.158 libxcb 1.13.1 2
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1.159 aopalliance-repackaged 2.5.0-b32

1.160 jakarta activation api 1.2.1

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1.161 jackson-databind 2.9.8

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1.162 libfontenc 1.0.5 2.el6

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1.169 parse-asn1 5.1.5

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1.170 javax-persistence-api 2.2

1.171 animal-sniffer-annotation 1.14

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1.172 libgpg-error 1.26-2

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Zstd-jni: JNI bindings to Zstd Library

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1.181 has-binary 0.1.7

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1.182 jackson-dataformat-yaml 2.9.8

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1.183 react-router 3.2.5

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/∗ /opt/ws_local/PERMITS_SQL/1025042824_1593082234.07/0/spring-batch-core-4-2-1-release-sources-jar/org/springframework/batch/core/JobParametersInvalidException.java

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- jar/org/springframework/batch/core/configuration/support/MapJobRegistry.java
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- jar/org/springframework/batch/core/step/AbstractStep.java
- jar/org/springframework/batch/core/repository/support/SimpleJobRepository.java
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* /opt/ws_local/PERMITS_SQL/1025042824_1593082234.07/0/spring-batch-core-4-2-1-release-sources-jar/org/springframework/batch/core/launch/JobExecutionNotRunningException.java
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

1.195 yaws 2.0.6

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```xml
<license>
  <issueDate>2008-04-14</issueDate>
  <licenseSchemaVersion>1.2</licenseSchemaVersion>
  <licenseType>standard</licenseType>
  <majorVersion>5</majorVersion>
  <minorVersion>4</minorVersion>
  <organization>Claes Wikstrom - Open Source License</organization>
  <patchVersion>5</patchVersion>
  <product>BitRock InstallBuilder Multiplatform Enterprise</product>
  <project>yaws</project>
  <signature>b0f43380b13adfd6b16e2cc2cfa330463</signature>
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1.197 perl 5.28.1 6
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```perl
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.
```
If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { 
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.”
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------

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1.204 jersey-spring 2.25.1

1.205 asm-commons 7.1

1.206 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.207 mime-support 3.60

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1.208 brave-instrumentation-http 5.9.0

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- /opt/ws_local/PERMITS_SQL/1028331597_1588775690.41/0/brave-instrumentation-http-5-9-0-sources-jar/brave/http/HttpRequest.java
- /opt/ws_local/PERMITS_SQL/1028331597_1588775690.41/0/brave-instrumentation-http-5-9-0-sources-jar/brave/http/HttpClientRequest.java
jar/brave/http/HttpClientAdapter.java
* /opt/ws_local/PERMITS_SQL/1028331597_1588775690.41/0/brave-instrumentation-http-5-9-0-sources-
jar/brave/http/HttpServerHandler.java
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1.209 swagger-annotations 1.5.22
1.209.1 Available under license :
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 */

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";

1.210 jetty 9.4.26.v20200117
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The following artifacts are EPL and ASL2.
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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*/

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Version 3, 29 June 2007
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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M. Welsh, 6 July 1996

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  for the initial saa7146 driver and its recent overhaul

Christian Theiss
  for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
  for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
  for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
  for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
  for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
  for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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  for his AFC kernel thread

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  for many bugfixes

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  for his work on the budget drivers, the demux code,
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  for his work on calculating and checking the crc's for the
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  for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
  for tuning/DiSEqC support for the DEC 3000-s

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  for the IR code for the ttusb-dec driver

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  for the lgdt330x frontend driver, and various bugfixes

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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line to the DVB mailing list)

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Version 1.0

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their work on the dbox2 port of the DVB driver

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for many bugfixes

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif
```

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.5.4.RELEASE

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This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
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REFERENCES          Where to learn more about JPEG.
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Other documentation files in the distribution are:

User documentation:
- install.doc     How to configure and install the IJG software.
- usage.doc       Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
- *.1             Unix-style man pages for programs (same info as usage.doc).
- wizard.doc      Advanced usage instructions for JPEG wizards only.
- change.log      Version-to-version change highlights.

Programmer and internal documentation:
- libjpeg.doc      How to use the JPEG library in your own programs.
- example.c        Sample code for calling the JPEG library.
- structure.doc    Overview of the JPEG library's internal structure.
- filelist.doc     Road map of IJG files.
- coderules.doc    Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
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the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdipcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996. ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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1.239 jackson-datatype-jdk8 2.10.2

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```
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1.253 classmate 1.3.4

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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1.254 bn.js 5.1.2

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1.256 okio 1.13.0

1.257 libsmi 0.4.8

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU'ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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1.258 berkeley-db 5.3.28-12+deb9u1

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1.260 ms 2.1.2

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1.261 regexp 1.5 4.4.el6

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1.262 iwl4965-firmware 228.61.2.24 2.1.el6

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1.263 subscriptions-transport-ws 0.9.5

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1.306 jackson-core 2.8.4

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1.308 snake-yaml 1.23

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1.309 debianutils 4.8.6.1

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1.312 snake-yaml 1.14

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1.317 babel-runtime 7.7.2
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  jar/com/google/errorprone/annotations/MustBeClosed.java
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  jar/com/google/errorprone/annotations/RestrictedApi.java
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  jar/com/google/errorprone/annotations/FormatMethod.java
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  jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
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  jar/com/google/errorprone/annotations/NoAllocation.java
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  jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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  jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
  jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
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  jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
  jar/com/google/errorprone/annotations/Var.java
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  jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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1.319 fdisk 2.29.2-1+deb9u1

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/release/ReadMe.rtf

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* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jdatadst.c
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/*jcmarker.c
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* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
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/*
* jdatasrc-tj.c
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* For conditions of distribution and use, see the accompanying README file.
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jdatasrc-tj.c
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/*
 * jdsample.c
 *
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 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jdsample.c

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/*
 * cdjpeg.h
 *
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 * For conditions of distribution and use, see the accompanying README file.
This file contains common declarations for the sample applications cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jsimd_none.c
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/doc/html/search/search.js
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/*
 * jdmrgext.c
 *
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 *
 * This file contains code for merged upsampling/color conversion.
 */
Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jdmgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
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/*
 * wrrle.c
 *
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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/wrrle.c
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/*
 * jpegcomp.h
 *
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 * 
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jpegcomp.h

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/*
 * jpegtran.c
 *
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 * 
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jpegtran.c

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/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains portable arithmetic entropy encoding routines for JPEG
 */
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcarith.c

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*/
* rdtarga.c
*
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*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/rdtarga.c

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*/
* jpeglib.h
*
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*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/
/*
 * djpeg.c
 *
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 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

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# this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
# software without specific prior written permission.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 * 
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 * 
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jctrans.c
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 * jdhuff.h
 * 
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 * 
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jdhuff.h
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; jsimdext.inc - common declarations
;
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; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
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; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;=========================================================================
; System-dependent configurations

%ifdef WIN32;  ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --

%ifdef  __YASM_VER__
%define SEG_TEXT    .text  align=16
%define SEG_CONST   .rdata align=16
%else
%define SEG_TEXT    .text  align=16 public use32 class=CODE
%define SEG_CONST   .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64;  ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT  .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT  .text  align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name)  name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT  .text  align=16 public use32 class=CODE
%define SEG_CONST .data  align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -fel[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT  .text   progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT  .text   progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_	; ELF supports PIC
%define EXTN(name)  name			; foo() -> foo

%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format  (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format  (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT  .text
%define SEG_CONST .data
; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%ifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; -------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword          ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD   ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT      ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword          ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD   ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword          ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD   ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT
%define FP32                    dword          ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD   ; sizeof(FP32)
%define FP32_BIT    DWORD_BIT       ; sizeof(FP32)*BYTE_BIT
%define MMWORD      qword           ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD  ; sizeof(MMWORD)
%define MMWORD_BIT  QWORD_BIT       ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD     ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT       ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE  1       ; sizeof(BYTE)
%define SIZEOF_WORD  2       ; sizeof(WORD)
%define SIZEOF_DWORD 4       ; sizeof(DWORD)
%define SIZEOF_QWORD 8       ; sizeof(QWORD)
%define SIZEOF_OWORD 16      ; sizeof(OWORD)
%define BYTE_BIT     8       ; CHAR_BIT in C
%define WORD_BIT     16      ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT    32      ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT    64      ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT    128     ; sizeof(OWORD)*BYTE_BIT

; ---------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name)   _ %+ name		; foo() -> _foo
%endif

; ---------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ;-------------------------------------------------------

%ifdef GOT_SYMBOL,:.MACHO_PIC_ ;------------------

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.
SECTION SEG_CONST

const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%geteip:
movecx, POINTER [esp]
ret
%%adjust:
pushebp
xorebp, ebp; ebp = 0
%ifidni %1, ebx; (%1 == ebx)
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%ref:
%else ; (%1 != ebx)
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%ref:
mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ----------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call%%geteip
add%1, GOT_SYMBOL + $ - $ wrt ..gotpc
jmpshort %%done
%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro
%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro
%else; !PIC ----------------------------------------%define GOTOFF(got,sym) (sym)
%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro
%endif; PIC ----------------------------------------; -------------------------------------------------------------------------; Align the next instruction on {2,4,8,16,..}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($$-(b)) & ((n)-1))
%imacro alignx 1-2.nolist 0xFFFF
%%bs:times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
db 0x90
; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
db 0x8D,0xAD,0x00,0x00,0x00,0x00
; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
db 0x8D,0x6C,0x25,0x00
; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
db 0x8D,0x6D,0x00
; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \

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%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

*/
*jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains software version identification.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghli/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghli/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

*/
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
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For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image
files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested, then the decompression
library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of
the ISO JPEG standard; most baseline, extended-sequential, and progressive
JPEG processes are supported. (Our subset includes all features now in common
use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time
choice rather than a run-time choice; hence it is difficult to use both
precisions in a single application.

By itself, the library handles only interchange JPEG datstreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datstreams that
are embedded in more complex file formats. (For example, this library is
used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (e.g., a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (e.g., a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)
A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().
You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):

image_width  Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
of 1 to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special
color spaces", later, for more info.) The in_color_space field must be
assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or
JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the
image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by
calling jpeg_set_defaults(); then, if there are particular values you want
to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(),
because the defaults depend on the source image colorspace. However the
other three source image parameters need not be valid until you call
jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more
than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
4. `jpeg_start_compress(...);`

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   `jpeg_write_scanlines(...);`

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines.
This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:
jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.
After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your
responsibility; neither of these routines will call term_destination().
(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG
object that has reported an error by calling error_exit (see "Error handling"
for more info). The internal state of such an object is likely to be out of
whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

   This is just like initialization for compression, as discussed above,
   except that the object is a "struct jpeg_decompress_struct" and you
call jpeg_create_decompress(). Error handling is exactly the same.

   Typical code:

   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...  
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);

   (Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

   As previously mentioned, the JPEG library reads compressed data from a "data
source" module. The library includes one data source module which knows how
to read from a stdio stream. You can use your own source module if you want
to do something else, as discussed later.

   If you use the standard source module, you must open the source stdio stream
beforehand. Typical code for this step looks like:

   FILE * infile;
   ...
   if ((infile = fopen(filename, "rb")) == NULL) {
      fprintf(stderr, "can't open %s\n", filename);
      exit(1);
   }
jpeg_stdio_src(&cinfo,infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or
otherwise corrupt binary data. To suppress this behavior, you may need to use
a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and
jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header()
  may return before it has read all the header data. See "I/O suspension",
  below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on
  abbreviated datastreams. Standard applications that deal only in
  interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on
the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);
After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
--------------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.
If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this
task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.
int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

cjpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance
is mainly only useful if chrominance subsampling is disabled. 2x2
chrominance subsampling (AKA "4:2:0") is the default, but you can
explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **JDIMENSION image_width** - Width and height of image
- **JDIMENSION image_height**
- **int num_components** - Number of color components
- **J_COLOR_SPACE jpeg_color_space** - Color space of image
- **boolean saw_JFIF_marker** - TRUE if a JFIF APP0 marker was seen
- **UINT8 JFIF_major_version** - Version information from JFIF marker
- **UINT8 JFIF_minor_version**
- **UINT8 density_unit** - Resolution data from JFIF marker
- **UINT16 X_density**
- **UINT16 Y_density**
- **boolean saw_Adobe_marker** - TRUE if an Adobe APP14 marker was seen
- **UINT8 Adobe_transform** - Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See “Special color spaces”, below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space** - Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

- **unsigned int scale_num, scale_denom** - Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.
boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB => YCbCr and CMYK => YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colors(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCC => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCC transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.
Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.
empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.
term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
---------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.
When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE. The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
case did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by
having empty_output_buffer() or fill_input_buffer() set the pointer and count
to reference the next available buffer; FALSE is returned only if no more
buffers are available. Although seemingly straightforward, there is a
pitfall in this approach: the backtrack that occurs when FALSE is returned
could back up into an earlier buffer. For example, when fill_input_buffer() is
called, the current pointer & count indicate the backtrack restart point.
Since fill_input_buffer() will set the pointer and count to refer to a new
buffer, the restart position must be saved somewhere else. Suppose a second
call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current
buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support
-------------------------------

Progressive JPEG rearranges the stored data into a series of scans of
increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination.
manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
```
This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

while (! jpeg_input_complete(&cinfo))

and the start-output call should read

jpeg_start_output(&cinfo, cinfo.input_scan_number);

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:

JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library’s output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can “get ahead” of the output processing but is not allowed to “fall behind”. You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part.

Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
```c
    cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it
was able to produce before suspending.

* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)

* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quantFixed color cube colormap
enable_external_quantExternally-supplied colormap
enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before
calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters()
for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```c
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
```
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR
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A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers.

(Note: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there
used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it’s safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it’s been processed.

For either method, you’d normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you’ve established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn’t ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.
Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines
value must be at least max_v_samp_factor*DCTSIZE, and the return value will
be exactly that amount (or possibly some multiple of that amount, in future
library versions). This is true even on the last call at the bottom of the
image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downscaled_width = 101 and width_in_blocks = 13 for Y,
downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.
Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)  

-----------------

total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

---------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory

manager to control allocation yourself (for example, if you don’t want the library to use malloc() and free() for some reason).

Some data is allocated “permanently” and will not be freed until the JPEG object is destroyed. Most data is allocated “per image” and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

\[
\text{ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);}\]

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with “strip” buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it’s too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the “temporary files” may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it’s a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual colors spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular
situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application’s image data.

The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you’ll have to supply suitable default Huffman tables.

You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn’t generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.

You probably don’t want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there’s no good way to display...
a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjjpeg and djjpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char at least 8 bits wide
shorts at least 16 bits wide
ints at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjjpeg/djjpeg do have ASCII dependencies in file-header manipulation; so does cjjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting
to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghl/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
/* Define "void" as 'char' if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__
	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined. */
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */
#endif

/* The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these. */
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpe.c or djpe.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("...rb") or fopen("...wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpe/djpe.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPE_DJPE */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
*/

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

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */
/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 */
The advantage of this method is that no data path contains more than one
multiplication; this allows a very simple and accurate implementation in
scaled fixed-point arithmetic, with a minimal number of shifts.

```
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/
```

Found in path(s):
```
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.
```

```
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/
```

Found in path(s):
```
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.
```

```
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
```

---

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* While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jidctfst.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jdsammx.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcqnts2i-64.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcsams2.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcgrammx.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcclrss2.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcgrysz2-64.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/ji3dnflt.asm
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/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/
* jcomapi.c
* 
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/
* jcapimin.c
* 
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* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghl/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 * 
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 * 
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghl/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

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*/

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* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java

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

/*
 * jmemnobs.c
 * *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-
archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jmemnobs.c
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/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
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 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdapistd.c
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/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgli/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgli/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgli/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgli/libjpeg-turbo-1.2.90/tjbench.c
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgli/libjpeg-turbo-1.2.90/turbojpeg.h

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

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
This file contains simple error-reporting and trace-message routines. These are suitable for Unix-like systems and others where writing to stderr is the right thing to do. Many applications will want to replace some or all of these routines.

If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile, you get a Windows-specific hack to display error messages in a dialog box. It ain't much, but it beats dropping error messages into the bit bucket, which is what happens to output to stderr under most Windows C compilers.

These routines are used by both the compression and decompression code.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jerror.c

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This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on ARM architecture.

Based on the stubs from 'jsimd_none.c'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

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Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 */
While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jfdctfst.c

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

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

```
/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */
```

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.
This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library.
We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general
rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime,
the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***
We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

\[
\text{input data} \Rightarrow \text{processing step A} \Rightarrow \text{buffer} \Rightarrow \text{processing step B} \Rightarrow \text{output data}
\]

\[
\begin{array}{c|c|c}
\hline
\text{controller} \\
\hline
\end{array}
\]

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-
step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|--- Colorspace conversion
   |--- Preprocessing controller --|
     |--- Downsampling
Main controller --|
     |--- Forward DCT, quantize
     |--- Coefficient controller --|
     |--- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to
separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.
* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
  |-- Coefficient controller --|
  |                             |-- Dequantize, Inverse DCT
Main controller --|
  |                   |-- Upsampling
  |-- Postprocessing controller --|-- Colorspace conversion
  |                             |-- Color quantization
  |                             |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.
* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.
* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get
arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; // 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to
empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment,
so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
* Pool allocation heuristics may differ for large and small objects.
  Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available estimate available memory
- jpeg_open_backing_store create a backing-store object
read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most
cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
*/

Found in path(s):
*/
*/
/*
* wrgif.c
*/

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.         *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
*/
No license file was found, but licenses were detected in source scan.

/*
 * jdcoext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh1/libjpeg-turbo-1.2.90/jdcoext.c

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

1.2.90 (1.3 beta1)
===============

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path= /usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating
the performance of the TurboJPEG Java API. It can be run with 
‘java -cp turbojpeg.jar TJBench’.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace 
(feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be 
suffixed with "f" to indicate that, when the upper left corner of the cropping 
region is automatically moved to the nearest iMCU boundary, the bottom right 
corner should be moved by the same amount. In other words, this feature causes 
jpegtran to strictly honor the specified width/height rather than the specified 
bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale 
images (feature ported from jpeg-8d.)

multiple "Mismatch in operand sizes" errors when attempting to build the x86 
SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and 
jpeg_mem_dest()) are now included by default when building libjpeg-turbo with 
libjpeg v6b or v7 emulation, so that programs can take advantage of these 
functions without requiring the use of the backward-incompatible libjpeg v8 
ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been 
incremented by 1 to reflect this. You can disable this feature with a 
configure/CMake switch in order to retain strict API/ABI compatibility with the 
libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See 
README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official 
libjpeg-turbo binary package for OS X, so that those libraries can be used to 
build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now 
properly work when the input or output colorspace is one of the libjpeg-turbo 
colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) 
upsampling was used along with an alpha-enabled colorspace during 
decompression, the unused byte of the decompressed pixels was not being set to 
0xFF. This has been fixed. TJUnitTest has also been extended to test for the 
correct behavior of the colorspace extensions when merged upsampling is used.
[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to
check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").
[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0

---

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is $\geq 98$ and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these cases.
high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.
[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=====
2982659, Fixed x86-64 build on FreeBSD systems

2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages
[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

*/
* jquant1.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
*/
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

*/
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghli/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate
image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/wslocal/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghI/libjpeg-turbo-1.2.90/java/README

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

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the virtual arrays;
 * * control logic for swapping virtual arrays between main memory and backing storage.
 * The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.
* This file is system-dependent in the sense that some of its functions
  * are unnecessary in some systems. For example, if there is enough virtual
  * memory so that backing storage will never be used, much of the virtual
  * array control logic could be removed. (Of course, if you have that much
  * memory then you shouldn't care about a little bit of unused code...)
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghii/libjpeg-turbo-1.2.90/jmemmgr.c
  No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghii/libjpeg-turbo-1.2.90/jcmaster.c
  No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */
Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/cerror.h
No license file was found, but licenses were detected in source scan.

/*
*jcolor.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains output colorspace conversion routines.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcolor.c
No license file was found, but licenses were detected in source scan.

/*
jerror.h
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
rdbmp.c
*
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghli/libjpeg-turbo-1.2.90/rdbmp.c

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

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com-License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

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

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

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

/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-
archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

License:IJG

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/spec
No license file was found, but licenses were detected in source scan.

/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*/
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
currently implemented.
*/

/* Portions of this code are based on the PBMPLUS library, which is:
  **
  ** Copyright (C) 1988 by Jef Poskanzer.
  **
  ** Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
* jccoeffc.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jccoeffc.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* This code contributed by James Arthur Boucher.
*/

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

/*
 * cjpeg.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

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

/*
 * jccolext.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/ *
* jcphuff.c
 *
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains Huffman entropy encoding routines for progressive JPEG.
* *
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

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Permission is hereby granted to use, copy, modify, and distribute this
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reasons for developing this free software was to help force convergence on

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/ *
* jdmaster.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghii/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghii/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/ *
* jdhuff.c
*
* This file contains Huffman entropy decoding routines.
* 
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghii/libjpeg-turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, 
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, 
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as 
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

**TurboJPEG API:** This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory `/opt/libjpeg-turbo` on Unix and Mac systems and `c:\libjpeg-turbo[-gcc][64]` on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

If a Unix application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating `LD_LIBRARY_PATH`. For instance:
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys  0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command
To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=================================
Colorspace Extensions
=================================

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding
-- libjpeg: In-memory source and destination managers
   See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
   Note that the libjpeg v7+ API was extended to accommodate this feature only
   for convenience purposes. It has always been possible to implement this
   feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
   cinfo.scale_num and cinfo.scale_denom are silently ignored.
   There is no technical reason why DCT scaling could not be supported when
   emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
   below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
   8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
   cinfo.block_size is silently ignored.
   SmartScale is an extension to the JPEG format that allows for DCT block
   sizes other than 8x8. Providing support for this new format would be
   feasible (particularly without full acceleration.) However, until/unless
   the format becomes either an official industry standard or, at minimum, an
   accepted solution in the community, we are hesitant to implement it, as
   there is no sense of whether or how it might change in the future. It is
   our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=======================================
In-Memory Source/Destination Managers
=======================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg
v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/README-turbo.txt

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

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 */

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 */

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/rdle.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains Huffman entropy encoding routines.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-
archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghj/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; ; x86 SIMD extension for IJG JPEG library
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
; ; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]
;
; ----------------------------------------------------------------------------------------
;
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7

%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0

%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; -----------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

From c51b66ebcace2adec0cfbe42d25cb418ed0e02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOFRRANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cerror.h | 5 ++++-
rdbmp.c  | 7 ++++-
rppm.c   | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cerror.h b/cerror.h
Open Source Used In MSX Cloud UTD Service Pack 3.9.0  2501

index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
*/
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
@@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#endif PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
JMESSAGE(JTRC_PGM, "%ux%u PGM image")
JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
*/
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
 JDIMENSION row_width;/* Physical width of scanlines in file */
 int bits_per_pixel;/* rememores 8- or 24-bit format */
+ int cmap_length;    /* colormap length */
@  -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
    + int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
        t = GETJSAMPLE(*inptr++);
    + if (t >= cmaplen)
    +     ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
        *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
        *outptr++ = colormap[1][t];
        *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
        source->colormap = (*cinfo->mem->alloc_sarray)
            ((j_common_ptr) cinfo, JPOOL_IMAGE,
            (JDIMENSION) biClrUsed, (JDIMENSION) 3);
        + source->cmap_length = (int)biClrUsed;
    /* and read it from the file */
    read_colormap(source, (int) biClrUsed, mapentrysize);
    /* account for size of colormap */
    diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow; /* FAR pointer to same */
    size_t buffer_width; /* width of I/O buffer */
    JSAMPLE *rescale; /* => maxval-remapping array, or NULL */
    - int maxval;
    + unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    if (val > maxval)
    - ERREXIT(cinfo, JERR_PPM_TOOLARGE);
    + ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);
return val;
}
--
2.17.2

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo12-CVE-2018-14498.patch

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

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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

/*
 * jdmerge.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time.  In the conversion equations
 * \[ R = Y + K1 \times Cr \]
 * \[ G = Y + K2 \times Cb + K3 \times Cr \]
 * \[ B = Y + K4 \times Cb \]
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCbCr \rightarrow RGB color conversion only.
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases.  (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcolor.c.)
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdmerge.c

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

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

License: BSD-style
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

/*
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdatadst-tj.c

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

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/rdjpgcom.c

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

/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
that have other user interfaces.

NOTE: all the routines declared here have very specific requirements
about when they are to be executed during the reading and writing of the
source and destination files. See the comments in transupp.c, or see
jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapiin.c to avoid linking the
* whole compression library into a transcoder.
*/
Open Source Used In MSX Cloud UTD Service Pack 3.9.0  2508

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jmainct.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {

else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

    LOCAL(int *)
    function_name (int a, char *b)
    {
        code...
    }

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).
If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/coderules.txt
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/*
 * jdpostct.c
 *
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 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/jdpostct.c

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; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
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;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
; %define RANGE_MASK  (MAXJSAMPLE * 4 + 3); 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/simd/jdct.inc
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 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsghi/libjpeg-turbo-1.2.90/wrtarga.c
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Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

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 *
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 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

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 *
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 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/wrppm.c
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/ *
* jcinit.c
*
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* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1037722543_1593325283.31/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-oRwMIAwp/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-XLQwsgh/libjpeg-turbo-1.2.90/jcinit.c
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/ *
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
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* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
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 *
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 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                        *
*****************************************************************************
 *
* We are required to state that
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*/

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% % Load plain if necessary, i.e., if running under initex.
\expandafter\ifx\csname fname\endcsname\relax\input plain\fi
% \def\texinfoversion{2007-09-03.05}
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tex foo.texi
texindex foo.??
tex foo.texi
tex foo.texi
dvips foo.dvi -o # or whatever; this makes foo.ps.
The extra TeX runs get the cross-reference information correct.
Sometimes one run after texindex suffices, and sometimes you need more than two; texi2dvi does it as many times as necessary.

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1.325 swagger-annotations 1.5.20

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     */

    package io.swagger.annotations;

    import java.lang.annotation.ElementType;
    import java.lang.annotation.Retention;
    import java.lang.annotation.RetentionPolicy;
    import java.lang.annotation.Target;

    /**
     * License metadata available within the info section of a Swagger definition, see
     * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
     * <p>
     * @since 1.5.0
     */

    @Target(ElementType.ANNOTATION_TYPE)
    @Retention(RetentionPolicy.RUNTIME)
    public @interface License {

        /**
         * The name of the license.
         * <p>
         * @return the name of the license
         */
        String name();

        /**
         * An optional URL for the license.
         */
    }
* @return an optional URL for the license.
*/

String url() default "";
}

1.326 xml-commons-apis 1.3.04 3.6.el6

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2000-05-05

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1.327 libsm 1.2.1 2.el6

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1.328 spring-boot-actuator 1.5.18.RELEASE

1.329 bzip2 1.0.6 8.1

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1.330 ribbon-core 2.3.0

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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<one line to give the program's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here a sample; alter the names:

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    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

That's all there is to it!

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## The Unicode Standard, Unicode Character Database, Version 10.0.0

### Unicode Character Database

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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1.368 spring-data-cassandra 2.2.4

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* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-
jar/org/springframework/data/cassandra/core/cql/CqlProvider.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-
Open Source Used In MSX Cloud UTD Service Pack 3.9.0  2982
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/cql/QueryOptionsUtil.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/repository/query/CassandraQueryExecution.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/repository/config/EnableReactiveCassandraRepositories.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/repository/config/ReactiveCassandraRepositoriesRegistrar.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/DropTableSpecification.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/UserTypeNameSpecification.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/mapping/CassandraUserTypePersistentEntity.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/cql/generator/AlterUserTypeCqlGenerator.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/cql/generator/AlterUserTypeCqlGenerator.java

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* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/mapping/CodexRegistryTupleTypeFactory.java
* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/ExecutableSelectOperation.java
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* /opt/ws_local/PERMITS_SQL/1026520554_1591432788.48/0/spring-data-cassandra-2-2-4-release-sources-jar/org/springframework/data/cassandra/core/mapping/AfterDeleteEvent.java
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Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Version 2.1, February 1999

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/MessageHandler.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/converter/ProtobufJsonFormatMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources.jar/org/springframework/messaging/rsocket/RSocketRequester.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources.jar/org/springframework/messaging/rsocket/DefaultMetadataExtractor.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources.jar/org/springframework/messaging/handler/invocation/reactive/AbstractMethodMessageHandler.java
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jar/org/springframework/messaging/handler/annotation/reactive/DestinationVariableMethodArgumentResolver.java
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jar/org/springframework/messaging/handler/CompositeMessageCondition.java
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jar/org/springframework/messaging/tcp/TcpOperations.java
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jar/org/springframework/messaging/handler/MessageCondition.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
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jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/handler/annotation/Header.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java
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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * []queueCapacity(int) queueCapacity] is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor] for
 * more details.
 * By default this is set to [Integer.MAX_VALUE].
 */

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man/flopen.3
man/getpeereid.3
man/pidfile.3
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src/arc4random_unix.h
src/closefrom.c
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 *
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 *
 * This class provides a default implementation of the SAX2
 * {
 * @link org.xml.sax.Attributes Attributes} interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * There are two typical uses of this class:</p>
 *
 * to take a persistent snapshot of an Attributes object
 * in a {
 * @link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 *
 * This class replaces the now-deprecated SAX1 {
 * @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl} class; in addition to supporting the updated Attributes
 * interface rather than the deprecated {
 * @link org.xml.sax.AttributeList AttributeList} interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/Marshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/Unmarshaller.java

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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/GenericUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/GenericMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeUnmarshaller.java

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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/support/MarshallingSource.java
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java

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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/jibx/JibxMarshallerBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/support/AbstractMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/jaxb/Jaxb2Marshaller.java
1.404 xml-commons-resolver 1.1 4.18.el6

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1.406 gradle 2.3.0

1.407 bind-libs 9.9.4

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/iui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and postream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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*/

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Other developers who have contributed code are:

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GNUPG Natural Resources Canada 1998-08-11
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, 
mpi/hppa1.1/udiv-qrand.S, mpi/hppa1.1/mpih-mul2.S, 
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, 
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, 
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. 
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.422 python-backports-ssl-match-hostname

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1.425 hystrix-core 1.5.18

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1.449 libmpc 1.0.1

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas
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1.473 grub2-pc 2.02

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<?xml version="1.0" encoding="UTF-8"?>
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified
includes the characters at offset start..limit-1. That is, the
start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.</p>

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:</p>

<ul>
<li>Set the metadata of the new text to the metadata of the first
character replaced</li>
<li>If no characters are replaced, use the metadata of the
previous character</li>
<li>If there is no previous character (i.e. start == 0), use the
following character</li>
<li>If there is no following character (i.e. the replaceable was
empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as
a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not
intended for general use. Most clients will need to implement
[ @link Replaceable ] in their text representation class.</p>

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@see Replaceable
@author Alan Liu
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 */
package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() {
        return null;
    }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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**1.508 cglib-noddep 2.2.2**

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.510 p6spy 3.4

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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/handler/AbstractMessageProducingHandler.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/IdempotentReceiverAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/IntegrationConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/GlobalChannelInterceptor.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/IntegrationConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/leader/Candidate.java
1.512 cvs 1.11.23 16.el6

1.512.1 Available under license:

[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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<one line to give the program's name and a brief idea of what it does.>
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That's all there is to it!
[I have snipped the snail mail address of the FSF because it has
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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- Helix

For more information, visit the respective websites:

- [Chemistry](http://chukwa.apache.org/) - Open source data collection system for monitoring large distributed systems.
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1.521 create-hmac 1.1.7

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1.522 asm-all-repackaged 2.5.0-b32

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.536 hk2-utils 2.5.0-b32
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/*
 * avcstat - Display SELinux avc statistics.
 *
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 */
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/*
 * avcstat - Display SELinux avc statistics.
 *
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 *
 */
```
1.538 libtasn 4.13-3

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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package org.eclipse.persistence.descriptors.copying;

import java.io.*;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

public interface CopyPolicy extends Cloneable, Serializable {

    /**
     * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
     * @param object the object to clone
     * @param session the session
     * @return the clone
     * @throws DescriptorException a descriptor exception
     */
    Object buildClone(Object object, Session session) throws DescriptorException;

    /**********
    * <p><b>Purpose:</b> Allows customization of how an object is cloned.
    * An implementer of CopyPolicy can be set on a descriptor to provide
    * special cloning routine for how an object is cloned in a unit of work.
    * By default the InstantiationCopyPolicy is used which creates a new instance of
    * the class to be copied into.
    * The CloneCopyPolicy can also be used that uses a clone method in the object
    * to clone the object. When a clone method is used it avoid the requirement of having to
    * copy over each of the direct attributes.
    * @see org.eclipse.persistence.descriptors.copying.CloneCopyPolicy
    * @see org.eclipse.persistence.descriptors.copying.InstantiationCopyPolicy
    */
    public interface CopyPolicy extends Cloneable, Serializable {

        /**
         * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
         * @param object the object to clone
         * @param session the session
         * @return the clone
         * @throws DescriptorException a descriptor exception
         */
        Object buildClone(Object object, Session session) throws DescriptorException;
    }
}
/**
 * Return a shallow clone of the object for usage with the unit of work working copy.
 */
Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

/**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
 * work transactional read.
 */
Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
(UnitOfWork uow) throws DescriptorException;

/**
 * Clone the CopyPolicy.
 */
Object clone();

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();

package org.eclipse.persistence.descriptors.copying;
import org.eclipse.persistence.exceptions.*;

import org.eclipse.persistence.exceptions.*;

import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b>: This is the default copy policy.
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super();
    }

    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

package org.eclipse.persistence.descriptors.copying;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b>: Allows a clone of an object to be created with a method that returns
 * the cloned object.
 * 
 * It is possible to define methods for two types of clones
 * 
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
 * also be in place of the workingCopyMethod if it is not provided
 * 
 * 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
 * Object is registered in a UnitOfWork
 */
public class CloneCopyPolicy extends AbstractCopyPolicy {

    /** Allow for clone method to be specified. */
    protected String methodName;
    protected String workingCopyMethodName;
    protected transient Method method;
    protected transient Method workingCopyMethod;

    public CloneCopyPolicy() {
        super();
    }

    /** Clone through calling the clone method. */
    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() == null) {
            return getDescriptor().getObjectBuilder().buildNewInstance();
        }
        try {
            if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
                try {
                    return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
                        new Object[0]));
                } catch (PrivilegedActionException exception) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                        exception);
                }
            } else {
                return getDescriptor().getObjectBuilder().buildNewInstance();
            }
        } catch (PrivilegedActionException exception) {
            Exception throwableException = exception.getException();
            if (throwableException instanceof IllegalAccessException) {
                throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                    throwableException);
            }
        }
    }
}
this.getDescriptor(), throwableException);

    } else {
        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), throwableException);
    }
    }
}
else{
    return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
}
}
} catch (IllegalAccessException exception) {
    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
    this.getDescriptor(), exception);
}
} catch (InvocationTargetException exception) {
    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
    this.getDescriptor(), exception);
    }

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
 public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    if (this.getWorkingCopyMethodName() == null) {
        //not implemented to perform special operations.
        return this.buildClone(domainObject, session);
    }
    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
                domainObject, new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
                }
            } else {
                throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                this.getDescriptor(), throwableException);
            }
        }
    }
    }
    }
} else {
    return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new Object[0]);
}}}
/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey, UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.
    // Also preserve for clients who use the copy policy.
    ObjectBuilder builder = getDescriptor().getObjectBuilder();
    if (getWorkingCopyMethodName() != null) {
        Object original = builder.buildNewInstance();
        builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
        return buildWorkingCopyClone(original, query.getSession());
    } else {
        return builder.buildNewInstance();
    }
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
    return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
    return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}
/**
 * Return the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
 * Validate and build the methods.
 */
public void initialize(Session session) throws DescriptorException {
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(this.getDescriptor().getJavaClass(), this.getMethodName(),
                      new Class[0]));
        }
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            this.setWorkingCopyMethod(Helper.getDeclaredMethod(this.getDescriptor().getJavaClass(),
                      this.getWorkingCopyMethodName(), new Class[0]));
        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
    }
}

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
    this.method = method;
}

/**
* Set the clone method name.
*/

```java
public void setMethodName(String methodName) {
    this.methodName = methodName;
}
```

/**
 * Set the workingCopyClone method.
 * This is used to clone within a unit of work.
 */

```java
protected void setWorkingCopyMethod(Method method) {
    this.workingCopyMethod = method;
}
```

/**
 * Set the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */

```java
public void setWorkingCopyMethodName(String methodName) {
    this.workingCopyMethodName = methodName;
}
```

/**
 * Return false as a shallow clone is returned, not a new instance.
 */

```java
public boolean buildsNewInstance() {
    return getMethodName() == null;
}
```

```java
public String toString() {
    return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
}
```

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package org.eclipse.persistence.descriptors.copying;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.
 */
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

    /**
     * By default use the buildClone.
     */
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }

    /**
     * By default create a new instance.
     */
    public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
                                             UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }

    /**
     * INTERNAL:
     * Clones the CopyPolicy
     */
    public Object clone() {
        try {
            // clones itself
            return super.clone();
        } catch (Exception exception) {
        }
        return null;
    }

    /**
     */
* Return the descriptor.
*
protected ClassDescriptor getDescriptor() {
    return descriptor;
}

/**
 * Do nothing by default.
 */
public void initialize(Session session) throws DescriptorException {
    // Do nothing by default.
}

/**
 * Set the descriptor.
 */
public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose:</b> This is the default copy policy when weaving is used.
 * It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
 */
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }
}
public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
    return ((PersistenceObject)object)._persistence_shallow_clone();
}

public Object buildClone(Object object, Session session) throws DescriptorException {
    return ((PersistenceObject)object)._persistence_shallow_clone();
}

public boolean buildsNewInstance() {
    return false;
}

public String toString() {
    return Helper.getShortClassName(this) + "()";
}

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Upstream-Contact: Manoj Srivastava <srivasta@debian.org>
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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1.619 jaxb-runtime 2.3.1

1.620 rx-netty-contexts 0.4.9

1.621 bootstrap 4.3.1

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1.623 rsyslog 5.8.10 10.el6_6

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1.632 rt61pci-firmware 1.2 7.el6

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1.633 binutils 2.27

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated “know” assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 3, 29 June 2007

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```
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@enumerate a
@item
@end enumerate
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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That's all there is to it!
1.634 glibc-devel 2.17 106.el7_2.8

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
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You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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1.637 woden-impl-dom 1.0M9

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1.639 asn1.js 4.10.1

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function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = angular.element.cleanData;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: number|boolean): InjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean): InjectorService,
  getTestability: (e: Element): ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element): ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window`. Use this function to
 * reset AngularJS to the current global.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const REQUIRE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = 'ngModel';
export const REQUIRE_UPGRADE_MODULE_NAME = 'SSUpgradeModule';

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 */

/*
 * A `PropertyBinding` represents a mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr" where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
this.parseBinding();
private parseBinding() {
  this.bracketAttr = `$${this.attr}`;
  this.parenAttr = `(${this.attr})`;
  this.constAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
  this.onAttr = `on$${this.attr}`;
  this.bindAttr = `bind$${this.attr}`;
  this.bindonAttr = `bindon$${this.attr}`;
}

function onError(e: any) {
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

function getTypeName(type: Type<any>): string {
  return (type as any).overriddenName || type.name ||
    type.toString().split('
')
      [0].replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

function supportsNgModel(component: any) {
  return typeof

component.writeValue === 'function' && typeof component.registerOnChange === 'function' *

Glue the AngularJS `NgModelController` (if it exists) to the component (if it implements the needed subset of the `ControlValueAccessor` interface). *nextexport function hookupNgModel(ngModel: INgModelController, component: any) { *if (ngModel && supportsNgModel(component)) {
  ngModel.$render = () => {
    component.writeValue(ngModel.$viewValue);
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * Test two values for
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
    private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[]
  {
    const compiledProjectableNodes: Node[] = [];
    const projectableNodes: Node[] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append!(clone);
      });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[]
  ) {
    const
    providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({
      providers: providers, parent: this.parentInjector, name:
      'DowngradeComponentAdapter'});
    this.componentRef =
        childInjector.createComponent(projectableNodes, this.element[0]);
    this.viewChangeDetector =
        childInjector.get(ChangeDetectorRef);
    this.componentInstance =
        childComponentRef.instance;
    // testability hook is
    // commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
    }
    hookupNgModel(this.ngModel, this.component);
  }

  setupInputs(manuallyAttachView: boolean,
    propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
      let expr: string|null = null;
      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue))
              throw new Error('Update with different sources');
            prevValue = currValue;
          };
        })(input.propName);
        expr = observeFn.toString(); // note: we escape the function in views
        if (expr) {
          attrs[input.attr] = expr;
        }
      }
    }
  }
}
```javascript
  if (prevValue === INITIAL_VALUE) {
    prevValue = currValue;
  }

  this.updateInput(prop, prevValue, currValue);
  prevValue = currValue;

  if (prevValue === INITIAL_VALUE) {
    prevValue = currValue;
  }

  this.updateInput(prop, prevValue, currValue);
  prevValue = currValue;
}

// Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time for `ngOnChanges()`. This is necessary if we are already in a `$digest`, which means that `ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.

  let unwatch: Function | null = this.componentScope.$watch(() => {
    unwatch = null;
    return this.componentScope.$watchFn();
  });

  unwatch = null;
  unwatch = this.componentScope.$watchFn();

  this.componentScope.$watch(() => this.inputChangeCount,
      this.wrapCallback(() => {
        if (this.implementsOnChanges) {
          const inputChanges = this.inputChanges;
          this.inputChanges = {};
          (<OnChanges>this.component).ngOnChanges(inputChanges);
        }

        this.viewChangeDetector.markForCheck();

        // If opted out of propagating digests, invoke change detection when inputs change.
        if (propagateDigest) {
          const detectChanges = () => this.changeDetector.detectChanges();
          this.componentScope.$watch(() => this.component.$watch(detectChanges);
        }

        if (propagateDigest) {
          this.componentScope.$watch(this.wrapCallback(detectChanges));
        }

        if (manuallyAttachView || !propagateDigest) {
          let unwatch: Function | null = this.componentScope.$watch(() => {
            unwatch = null;
            let appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
            appRef.attachView(this.componentRef.hostView);
          });

          unwatch = null;
          unwatch = null;
          unwatch = this.componentScope.$watchFn();
        }

        const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);

        this.componentFactory.outputs || []

        if (this.componentFactory.outputs) {
          this.componentFactory.outputs.forEach(output => {
            this.subscribeToOutput(output, true);
          });
        }

        if (this.componentFactory.outputs) {
          this.componentFactory.outputs.forEach(output => {
            this.subscribeToOutput(output, true);
          });
        }

        if (isAssignment && !setter) {
          throw new Error(`Expression '${expr}' is not assignable!`);
        }

        const emitter = this.component[output.prop] as
          | EventEmitter<any>;
        if (emitter) {
          emitter.subscribe({
            next: isAssignment ? (v: any) => setter,
            next: isAssignment ? (v: any) => setter,
          });
        } else {
          throw new Error(`Missing emitter '${output.prop}' on component
          'applicationRegistry.applicationRegistry('$destroy')
          this.componentScope.$on('$destroy', () => {
            if (!destroyed) {
              destroyed = true;
              testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
            }
          });
```
This helper function returns a factory function that can be used to define the Angular component that will be downgraded. The `downgradeComponent()` function returns a factory function that we can use to define the component that is being downgraded:

```typescript
function downgradeComponent(info: {
  component: Type<any>;
  downgradedModule?: string;
  propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory: IAnnotatedFunction = function(
    // When using `downgradeModule()`, we need to handle certain things specially. For
    // example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside
    //   the Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
    // force it back in).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;

    // When downgrading multiple modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1); // 
    return {
      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]):
        { // We might have to compile the contents asynchronously, because this might have been
          // triggered by `UpgradeNgModuleAdapterBuilder`, before the Angular templates have
          // been compiled.
          const ngModel: INgModelController =
            required[1];
          const parentInjector: Injector|Thenable<Injector> = undefined;
          let moduleInjector: Injector|Thenable<Injector> = undefined;
          if (!parentInjector || hasMultipleDowngradedModules) {
            const downgradeModule = info.downgradedModule
              info.component
              moduleInjector =
            lazyModuleRef.injector lazyModuleRef.injector ||
            lazyModuleRef.promise as Promise<Injector>; // 
        }}
    }
  }
}
```
There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant). `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be on the same tree as the `NgModule` that declares this downgraded component. `finalParentInjector` is used for all other injection purposes. (Note that Angular knows to only traverse the component-tree part of that injector when looking for an injectable and then switch to the module injector.) There are basically three cases:
- If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
- If there is a parent component (and thus a `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and `finalParentInjector`).
- If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded component's injector as `finalModuleInjector`. Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again). Note 2: It is possible that (while there are multiple downgraded modules) this injector downgraded component and its parent component both belong to the same NgModule. In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. If there is a parent component, use its injector as parent injector. If this is a "top-level" Angular component, use the module injector. const finalParentInjector = parentInjector || moduleInjector; If this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies. If there is a parent component that belongs to the same `NgModule`, use its injector. const finalModuleInjector = moduleInjector || parentInjector; const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  const ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
  const componentFactory: ComponentFactory<any> = ComponentFactoryResolver.resolveComponentFactory(info.component) !;
  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(
    element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
    componentFactory, wrapCallback);
  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();
  injectorPromise.resolve(facade.getInjector());
  if (ranAsync) {
    scope.$evalAsync( () => {});
  }
};

doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  const isNgUpgradeLite = !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
    const ComponentFactoryResolver = mInjector.get(ComponentFactoryResolver);
    const componentFactory: ComponentFactory<any> = ComponentFactoryResolver.resolveComponentFactory(info.component) !;
    if (!componentFactory) {
      throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
    }
    const injectorPromise = new ParentInjectorPromise(element);
    const facade = new DowngradeComponentAdapter(
      element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
      componentFactory, wrapCallback);
    facade.createComponent(projectableNodes);
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
    facade.setupOutputs();
    facade.registerCleanup();
    injectorPromise.resolve(facade.getInjector());
    if (ranAsync) { // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected.
      scope.$evalAsync(() => {});
    }
  }
};
private injectorKey: string = controllerKey(INJECTOR_KEY);

constructor(private element: IAugmentedJQuery) {

  super();

  // Store the promise on the element.
  element.data(!(this.injectorKey, this));

  resolve(injector: Injector): void {

    // Release the element to prevent memory leaks.
    this.element.data !(this.injectorKey, injector);

    // Release the promise.
    super.resolve(injector);

    // Restore the element.
    this.element.data !(this.injectorKey, injector);

    // Resolve the promise.
    super.resolve(injector);
  }
}

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 */

import {Injector} from '@angular/core';
import {TypeDef, INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * @param injectorKey a string that identifies the service.
 * @param injector the Injector to use when instantiating the service.
 * @returns a factory function that, when called, returns the service.
 * @publicApi
 */
export function downgradeInjectable(injectorKey: string, injector: Injector): Function {
  const factory = function($injector: IInjectorService) {

    // Store the promise on the element.
    $injector.get(injectorKey);

    // Release the element to prevent memory leaks.
    this.element.data !(this.injectorKey, injector);

    // Release the promise.
    super.resolve(injector);

    // Restore the element.
    this.element.data !(this.injectorKey, injector);

    // Resolve the promise.
    super.resolve(injector);

    // Release the element.
    this.element.data !(this.injectorKey, injector);

    // Resolve the promise.
    super.resolve(injector);
  }

  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance
extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: ' + name);
    }

    const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string|Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}' returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    // locals = {'$scope': $scope, '$element': this.$element};
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);

    this.$element.data !(controllerKey(this.directive.name !), controller);

    return controller;
  }

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }

    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();

    ILinkFn | undefined = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
      // 'Template' is empty. Since the transcluded content comes from Angular, not AngularJS, there
      // will be no transclusion scope here. Provide a dummy `scope.$destroy()` method to prevent
      // `cloneAttachFn` from throwing.
      scope = scope || {$destroy: () => undefined};

      return
    }

    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();

    ILinkFn | undefined = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
      // 'Template' is empty. Since the transcluded content comes from Angular, not AngularJS, there
      // will be no transclusion scope here. Provide a dummy `scope.$destroy()` method to prevent
      // `cloneAttachFn` from throwing.
      scope = scope || {$destroy: () => undefined};

      return
    }
cloneAttachFn (!$template, scope);\n  }\n}\nlet $template = contentChildNodes;\nif (transclude) {\n  const slots = Object.create(null);\n  if (typeof transclude === 'object') {\n    $template = [];\n    const slotMap = Object.create(null);\n    const filledSlots = Object.create(null); \n    // Parse the element selectors.\n    Object.keys(transclude).forEach(slotName => {\n      let selector = transclude[slotName];\n      const const optional = selector.charAt(0) === '?';\n      selector = optional ? selector.substring(1) : selector;\n      const $template = contentChildNodes;\n      if (transclude) {\n        // Consider optional slots as filled.\n        filledSlots[slotName] = null; \n        // `null` : Defined but not yet filled.\n        const slotMap = {\n          slots: slots; \n          slots[slotName] = null; \n        } \n        // Add the matching elements into their slot:\n        contentChildNodes.forEach(node => {\n          const $template = {\n            const slotName = slotName;\n            slots += slots[slotName] = null; \n            const slotMap = {\n              slotName, \n              slots[slotName] = null; \n            } \n            // Check for required slots that were not filled.\n            Object.keys(slotMap).forEach(slotName => {\n              Object.keys(filledSlots).forEach(slotName => {\n                if (filledSlots[slotName] !== true) {\n                  throw new Error('Required transclusion slot ' + $template + ' on directive: (' + $template + ')');\n                }\n              });\n            });\n            Object.keys(slotMap).forEach(slotName => {\n              $template.push(node);\n            });\n          }\n        });\n        // Evaluate the expressions.\n        this.resolveAndBindRequiredControllers($template);\n        // Append slot transclude fn.\n        attachChildrenFn.$$slots = slots;\n        // AngularJS v1.6+ removes all text content after the first interpolation and updates it later.\n        // To avoid this issue, we add a zero-width non-joiner character([https://en.wikipedia.org/wiki/Zero-width_non-joiner)]\n        to empty text nodes (which can only be a result of Angular removing their initial content).\n        // NOTE: Transcluded text content that starts with whitespace followed by an interpolation will\n        // still fail to be detected by AngularJS v1.6+.\n        $template.forEach(node => {\n          if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n            node.nodeValue = '\u200C';\n          }\n        });\n      }\n    });\n  }\n  return attachChildrenFn;\n}\n\nresolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n  const directiveRequire = this.getDirectiveRequire();\n  const requiredControllers = this.resolveRequire(directiveRequire);\n  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {\n    const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};\n    Object.keys(requiredControllersMap).forEach(key => {\n      controllerInstance[key] = requiredControllersMap[key];\n    });\n    return requiredControllers;\n  }\n  \n  if (Array.isArray(requiredControllers)) {\n    return requiredControllers.map(req => this.resolveRequire(req));\n  }\n  if (typeof requiredControllers === 'object') {\n    const value = {}\n    Object.keys(requiredControllers).forEach(key => {\n      value[key] = this.resolveRequire(requiredControllers[key]);\n    });\n    return value;\n  }\n  if (typeof requiredControllers === 'string') {\n    const inheritType = requiredControllers[0] || requiredControllers[2];\n    const name = requiredControllers.substring(0, requiredControllers.length - 2);\n    const isOptional = !this.isMatched[2];\n    const searchParents = !!inheritType;\n    const startOnParent = inheritType === '^@' ? false : this.directives.parent !() : this.directives.parent;\n    return 
  }
elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey)

  if (!value && !isOptional) {
    throw new Error('Unable to find required '${require}' in upgraded directive '${this.name}':
      $\{require\}');
  } else {
    throw new Error('Unrecognized require syntax on upgraded directive '${this.name}':
      $\{require\}');
  }

  return value;
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for 'typeof T !== 'object''.
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

interface IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction) from './../../../common/src/angular1!import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestory, OnInit, SimpleChange, SimpleChanges, Type} from
'@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from './../../../common/src/angular1!import {SCOPOE} from
'./../../../common/src/consts!import {IBindingDestination, IControllerInstance, UpgradeHelper} from
'./../../../common/src/upgrade_helper\!\import {Function, strictEquals} from './../../../common/src/util\!\import {CAMEL_CASE = /[A-Z]/g;\const\const\const\NOT_SUPPORTED: any = NOT_SUPPORTED;\const\const\const\const\constraint\const\const\const\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\constraint\cons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Open Source Used In MSX Cloud UTD Service Pack 3.9.0

UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck

```typescript
static resolve(exportedComponents: { [name: string]: UpgradeNg1ComponentAdapterBuilder }, $injector: IInjectorService): Promise<string[] | void> {
  const promises = Object.keys(exportedComponents).map(name => {
    const exportedComponent = exportedComponents[name];
    exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
    exportedComponent.extractBindings();
    return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
      .then(template => exportedComponent.template = template); // resolve
  });
  return Promise.all(promises);
}
```

```typescript
class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance | null = null;
  destinationObj: IBindingDestination | null = null;
  checkLastValues: any[] = [];
  directive: IDirective | null = null;
  element: Element | null = null;
  $element: any = null;
  constructor($injector: IInjectorService) {
    $injector.$get(UpgradeHelper)
      .buildController(directive.controller, this.componentScope);
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn | undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    this.controllerInstance = this.helper.buildController(directive.controller, this.componentScope);
    const requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    this.controllerInstance && isFunction(this.controllerInstance.$onInit) && this.controllerInstance.$onInit();

    // Linking
    const link = directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null!, { parentBoundTranscludeFn: attachChildNodes });

    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

    this.ngOnDestroy(); // Require other controllers
  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }
  }

  ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });
  }

  ngOnDestroy() {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  setComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }
}
Open Source Used In MSX Cloud UTD Service Pack 3.9.0
* An internal map of ng1 components which need to up upgraded to ng2.
* We can't upgrade until injector is instantiated and we can retrieve the component metadata.

* For this reason we keep a list of components to upgrade until ng1 injector is bootstrapped.

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* We can't upgrade until injector is instantiated and we can retrieve the componentmetadata.
=> { bootstrap(element, [this.ng1Module.name], config !); });\n const ng1BootstrapPromise = new
Promise((resolve) => {\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () =>
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n *\n * ```\n */\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n const token = options && options.asToken || name;\n this.upgradedProviders.push({\n
provide:
token,\n
useFactory: ($injector: IInjectorService) => $injector.get(name),\n
deps: [$INJECTOR]\n });\n
}\n\n /**\n * Allows Angular service to be accessible from AngularJS.\n *\n * @usageNotes\n * ###
Example\n *\n * ```\n * class Example {\n * }\n *\n * const adapter = new
UpgradeAdapter(MyNg2Module);\n *\n * const module = angular.module('myExample', []);\n *
module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body,
['myExample']).ready((ref) => {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n *\n *
```\n */\n downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n\n /**\n *
Declare the AngularJS upgrade module for this adapter without bootstrapping the whole\n * hybrid application.\n
*\n * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n *\n * @param modules
The AngularJS modules that this upgrade module should depend upon.\n * @returns The AngularJS upgrade
module that is declared by this method\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * const
upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n
* ```\n */\n private declareNg1Module(modules: string[] = []): IModule {\n const delayApplyExps: Function[] =
[];\n let original$applyFn: Function;\n let rootScopePrototype: any;\n let rootScope: IRootScopeService;\n
const upgradeAdapter = this;\n const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n
const platformRef = platformBrowserDynamic();\n\n this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n this.ng2BootstrapDeferred = new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))\n
.factory(\n
LAZY_MODULE_REF,\n
[INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n
.factory(COMPILER_KEY, () => this.moduleRef
!.injector.get(Compiler))\n
.config([\n
'$provide', '$injector',\n
(provide: IProvideService,
ng1Injector: IInjectorService) => {\n
provide.decorator($ROOT_SCOPE, [\n
'$delegate',\n
function(rootScopeDelegate: IRootScopeService) {\n
// Capture the root apply so that we can delay first
call to $apply until we\n
// bootstrap Angular and then we replay and restore the $apply.\n
rootScopePrototype = rootScopeDelegate.constructor.prototype;\n
if
(rootScopePrototype.hasOwnProperty('$apply')) {\n
original$applyFn = rootScopePrototype.$apply;\n
rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp);\n
} else {\n
throw
new Error('Failed to find \\'$apply\\' on \\'$rootScope\\'!');\n
}\n
return rootScope =
rootScopeDelegate;\n
}\n
]);\n
if (ng1Injector.has($$TESTABILITY)) {\n

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provide.decorator($STESTABILITY, 
  'delegate',
  function(testabilityDelegate: ITestabilityService) {
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    // Cannot use arrow function below because we need the context
    const newWhenStable = function(this: unknown, callback: Function) {
      originalWhenStable.call(this, function(this: unknown) {
        if (ng2Testability.isStable()) {
          callback.apply(this, arguments);
        } else {
          ng2Testability.whenStable(newWhenStable.bind(this, callback));
        }
      });
    };
    testabilityDelegate.whenStable = newWhenStable;
    return testabilityDelegate;
  });

  ng1Module.run(['$injector', '$rootScope',
    (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
      UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector).then(() => {
        // Note: There is a bug in TS 2.4 that prevents us from
        // inlining this into @NgModule
        // TODO(tbosch): find or file a bug against TypeScript for this.
        const ngModule = {
          providers: [
            {provide: $INJECTOR, useFactory: () => ng1Injector},
            {provide: $COMPIL, useFactory: () => ng1Injector.get($COMPIL)},
            this.upgradedProviders
          ],
          imports: [resolveForwardRef(this.ng2AppModule)],
          entryComponents: this.downgradedComponents
        };
        // At this point we have ng1 injector and we have prepared
        // ng1 components to be upgraded, we now can bootstrap ng2.
        @NgModule({jit: true, ...ngModule})
        class DynamicNgUpgradeModule {
          constructor() {}
          ngDoBootstrap() {}
        }
        platformRef
          .bootstrapModule(
            DynamicNgUpgradeModule, [{compilerOptions !,}
            {ngZone: this.ngZone}])
          .then((ref: NgModuleRef<any>) => {
            this.moduleRef = ref;
          })
          .catch((e) =>
            this.ng2BootstrapDeferred.reject(e));
      });
      return ng1Module;
    }
  ]);
IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn &&
    this._readyFn(this);
}

/**
 * Register a callback function which is notified upon successful hybrid
 * AngularJS / Angular
 * application has been bootstrapped.
 * The `ready` callback function is invoked
 * inside the Angular zone, therefore it does not
 * require a call to `$apply()`.
 */
public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = fn;
}

/**
 * Dispose of running hybrid
 * AngularJS / Angular application.
 */
public dispose() {
    this.ng1Injector.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef.destroy();
}

/**
 * Generated bundle index.
 * Do not edit.
 */

export * from './index';

"names":
["angularElement","INITIAL_VALUE","element","angularModule","ParentInjectorPromise"]
,"mappings":"

"}
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/upgrade.js.map

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```typescript
/**
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 *
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 * found
 * in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions
  // of `@types/angular` typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not
  // compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function
    extends{$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[];

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
}
```
export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}

export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): void;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $viewChangeListeners: Function[];
}

export interface IAngularBootstrapConfig {
  strictDi?: boolean;
  strictDi?: boolean;
  strictDi?: boolean;
}

// AngularJS v1.x is not loaded!
function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>
    IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string | IInjectable>, strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularLib` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

/**
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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$projectableNodes';

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`$$angularGroupProjectableNodes';

```typescript
export const INJECTOR_KEY = '$$angularInjector';

export const LAZY_MODULE_REF = '$$angularLazyModuleRef';

export const NG_ZONE_KEY = '$$angularNgZone';

export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;

export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';
```

```typescript
/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

let $injector: angular.IInjectorService|null = null;
let injector: Injector;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS * services.\n * * This function returns an ‘NGModule’ decorated class that is configured to
 * wire up the Angular\n * * and AngularJS injectors without the need to actually bootstrap a hybrid application.\n * * This makes it simpler and faster to unit test services.\n * * Use the returned class as an ‘\"import\"’ when
 * configuring the ‘TestBed’.\n * * In the following code snippet, we are configuring the TestBed with two
 * imports.\n * * The ‘Ng2AppModule’ is the Angular part of our hybrid application and the ‘ng1AppModule’ is the\n * AngularJS part.\n * * \n * * A helper function to use when testing Angular services that depend upon
 * upgraded AngularJS * services.\n * * Once this is done we can get hold of services via the Angular ‘Injector’ as
 * normal.\n * * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated\n * * as
 * needed by the AngularJS ‘$injector’.\n * * In the following code snippet, ‘HeroesService’ is an Angular service
 * that depends upon an\n * * AngularJS service, ‘titleCase’.\n * * This helper is for testing services not Components.\n * * For Component testing you must still
 * bootstrap a hybrid app. See ‘UpgradeModule’ or\n * * ‘downgradeModule’ for more information.\n * * This helper sets up global variables to hold the shared Angular and AngularJS injectors.\n * * Only call this helper once per
 * spec.\n * * Do not use ‘createAngularTestingModule’ in the same spec as ‘createAngularJSTestingModule’.\n * * Here is the example application and its unit tests that use ‘createAngularTestingModule’ and
 * ‘createAngularJSTestingModule’.\n * * Do not use ‘createAngularJUnit’ enabled.\n * * A helper function to use when testing
 * AngularJS services that depend upon downgraded Angular\n * * services.\n * * This function returns an AngularJS module that is configured to use the Angular\n * * injectors without the need to actually bootstrap
 * AngularJS services that depend upon downgraded Angular\n * * services.\n * * This function returns an AngularJS
```
a hybrid application. This makes it simpler and faster to unit test services. Use the returned AngularJS module in a call to

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

In the following code snippet, we are configuring the `Sinjector` with two modules:

```javascript
TheAngularNg1AppModule, which is the AngularJS part of our hybrid application and the

```javascript
'Ng2AppModule', which is the Angular part.
```

On this code snippet, AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

```javascript
export const INJECTOR_KEY = 'angularJSTestingModule';
```

The helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

```javascript
UpgradeAppType.Static
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-setup"></code-example>

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
angular.mocks.module('MyModule', function ($injector) {
  // Configuration for MyModule
});
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```javascript
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
zip/fesm5/static/testing.js.map

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Angular

========

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.
Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

License: MIT

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/README.md

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 */

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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/static/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/static/testing/src/create_angularjs_testing_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/dynamic/src/upgrade_ng1_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/component_info.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/version.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/testing/src/create_angularjs_testing_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/constants.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/component_info.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/upgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/upgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0.angular-upgrade-9-0-7-src-
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wire up the Angular\n* and AngularJS injectors without the need to actually bootstrap a hybrid application.\n* This makes it simpler and faster to unit test services.\n* Use the returned class as an `import` when configuring the `TestBed`.\n* `in` the following code snippet, we are configuring the TestBed with two imports:\n* The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the\n* AngularJS part.\n* `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-\nsetup">`\n* Once this is done we can get hold of services via the Angular `Injector` as normal.\n* Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated\n* as needed by the AngularJS `Sinjector`.\n* In the following code snippet, `HeroesService` is an Angular service that depends upon an\* AngularJS service, `titleCase`.\n* `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-\nsetup">`\n* This helper is for testing services not Components.\n* For Component testing you must still\n* bootstrap a hybrid app. See `UpgradeModule` or\* `downgradeModule` for more information.\n* `<div class="alert is-important">\n* The resulting configuration does not wire up AngularJS digests to Zone hooks.\n* It is the\* responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger\* AngularJS handlers of async events from Angular.\n* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n* `<div class="alert is-important">\n* `heroesService` is a downgraded Angular service that we are\* accessing from AngularJS.\n* This function returns an AngularJS\n* module that is configured to wire up the AngularJS and Angular\* injectors without the need to actually bootstrap a hybrid application.\n* This makes it simpler and faster to unit test services.\n* The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n* Only call this helper once per spec.\n* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n* `<div class="alert is-important">\n* Here is the example application and its unit tests that use `createAngularTestingModule`\n* and `createAngularJSTestingModule`.\n* `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-\nsetup">`\n* `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-\nsetup">`\n* You use of this source code is governed by an MIT-style license that can be\n* found in the LICENSE file at https://angular.io/license\n* [TestBed] from `@angular/core`\n* A helper function to use when testing AngularJS services that depend upon downgraded Angular\* services.\n* This function returns an AngularJS\n* module that is configured to wire up the AngularJS and Angular\* injectors without the need to actually bootstrap a hybrid application.\n* This makes it simpler and faster to unit test services.\n* Use the returned AngularJS module in a call\n* `['angular.mocks.module']()`\n* include this module in the unit test injectors.\n* In the following code snippet, we are configuring the `Sinjector` with two modules:\n* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the\* AngularJS `Ng2AppModule`, which is the Angular part.\n* `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-\nsetup">`\n* Once this is done we can get hold of services via the AngularJS `Sinjector` as normal.\n* Services that are (or have dependencies on) a downgraded Angular service,\n* will be instantiated as\n* needed by the Angular root `Injector`.

```typescript
/**
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 *
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 */

import {Injector} from '@angular/core';
import {TestBed} from '@angular/core/testing';

import * as ng from '../../../src/common/src/angular1';
import {injector, UPGRADE_APP_TYPE_KEY, UpgradeAppType, INJECTOR_KEY, UpgradeAppType.Static, factory} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';


/**
 * A helper function to use when testing AngularJS services that depend upon downgraded Angular
 * services.\n * This function returns an AngularJS\n * module that is configured to wire up the AngularJS and Angular\ * injectors without the need to actually bootstrap a hybrid application.\n * This makes it simpler and faster to unit test services.\n * Use the returned AngularJS module in a call
 * \n */

export function createAngularTestingModule(angularJSModules: string[], strictDi?: boolean): Type<any> {
  angular.module('$$angularJSTestingModule', angularJSModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => injector);
  $injector = angular.injector(['ng', '$$angularJSTestingModule'], strictDi);
  return AngularTestingModule;
}

```
digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

Only call this helper once per spec.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` a collection of Angular modules to include in the configuration.

```typescript
/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {module_ as ɵangular_packages_upgrade_static_testing_testing_a} from '../../src/common/src/angular1';
export {INJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d, UPGRADE_APP_TYPE_KEY as ɵangular_packages_upgrade_static_testing_testing_b} from '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '../../src/common/src/util';

function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', angularModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory($injector: ng.IInjectorService) => {
    TestBed.configureTestingModule({
      imports: angularModules,
      providers: [{provide: $INJECTOR, useValue: $injector}]
    });
    return TestBed.inject($injector);
  }
  .name;
}

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AI0Z,EAAS,CACTpB,QAASiB,GAAnB,MAAK,SAAU0P,GAGnD,OAFA3e,EAAO1e,SA
Aw,IAAIqQ,EAAkBsO,EAAI3e,WAC9CkF,IAAIjC,GACNjD,MAGf,OAAO0e,KAGVhF,OAAO,CACRzW,EAn
+BO,WAo+BP,SAASU0B,EAAS+U,GAC5BA,EAASD,SAAS3W,EAAS6B4,EAAyBC,GAAs,MAGteQZ,GA2xB
Xxf,EAQA4B,mBAaqBA,EAQ4f+c3/DR,SAASA,KACL,OAAn0e;KA2/DX5B,EAQ2f8,mBAAq
BA,EAQ7CB,EAQgqB.cArgER,SAASA,GACfC1f,GACnBqB,EAAmBrB,IAq9evBN,EAQqEB,0CAAA4Chp,E
ACpDjR,EAQKqB,0CAAA4Chp,EAcpDIR,EAQmqgB,0CAAA4Chp,EAcpDnR,EAQmqgB,0CAAA4Chp,EAcpDp
R,EAQgqB,0CAAA4Chp,EAcpDpR,OAAbB,EAAcD0,B,OAAs0A;0AAO","sourcesContent":[]}
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```javascript
DIRECTIVE_PREFIX_REGEXP = /[\w\-]*/g;
function onError(e) {
    if (console.error) {
        console.error(e, e.stack);
    } else {
        console.log(e, e.stack);
    }
    throw e;
}

function controllerKey(name) {
    return '$' + name + 'Controller';
}

function directiveNormalize(name) {
    return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
        .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, function (_, letter) { return letter.toUpperCase(); });
}

function getTypeName(type) {
    return type.overriddenName || type.name || type.toString().split('\n')[0];
}

function getDowngradedModuleCount($injector) {
    return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
        $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

function getUpgradeAppType($injector) {
    return $injector.has(UPGRADE_APP_TYPE_KEY) ?
        $injector.get(UPGRADE_APP_TYPE_KEY) : 0 /* None */;
}

function isFunction(value) {
    return typeof value === 'function';
}

function validateInjectionKey($injector, downgradedModule,
    injectionKey, attemptedAction) {
    var upgradeAppType = getUpgradeAppType($injector);
    var downgradedModuleCount = getDowngradedModuleCount($injector);
    switch (upgradeAppType) {
        case 1 /* Dynamic */:
        case 2 /* Static */:
            if (downgradedModule) {
                throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
                    unexpectedly specified.\n" + 'You should not specify a value for WdowngradedModule\', unless
                    you are downgrading ` +
                        'more than one Angular module (via \'downgradeModule()\').');
            }
            break;
        case 3 /* Lite */:
            if (!downgradedModule && (downgradedModuleCount
                >= 2)) {
                throw new Error("Error while " + attemptedAction + ": 'downgradedModule' not
                    specified.\n" + 'This application contains more than one downgraded Angular module, thus you
                    need to +
                        'always specify \'downgradedModule\' when downgrading components and
                    injectables.');
            } else {
                if (!$injector.has(injectionKey)) {
                    throw new Error("Error while " + attemptedAction + ": Unable to find the specified downgraded module.\n" + 'Did you forget to downgrade an Angular module or include it in the AngularJS \n+\n                    'application?\');
                }
            }
        break;
    }
}

function supportsNgModel(component) {
    return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

function hookupNgModel(ngModel, component) {
    if (ngModel && supportsNgModel(component)) {
        ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
        component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
        if (typeof component.registerOnTouched === 'function') {
            component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
        }
    }
}

function strictEquals(val1,
    val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}
```

---

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function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, Sparse, componentFactory, wrapCallback) {
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.wrapCallback = wrapCallback;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();

    DowngradeComponentAdapter.prototype.compileContents = function () {
        var _this = this;
        var compiledProjectableNodes = [];
        var projectableNodes = this.groupProjectableNodes();
        var linkFns = projectableNodes.map(function (nodes) {
            return _this.$compile(nodes);
        });
        this.element.empty();
        linkFns.forEach(function (linkFn) {
            linkFn(this.componentScope, function (clone) {
                compiledProjectableNodes.push(clone);
                this.element.append(clone);
            });
        });
        return compiledProjectableNodes;
    };

    DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
        var providers = [{ provide: $SCOPE, useValue: this.componentScope }];
        var childInjector = core.Injector.create({
            providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
        var childComponentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
        this.viewChangeDetector = this.childComponentRef.injector.get(core.ChangeDetectorRef);
        this.changeDetector = this.childComponentRef.changeDetectorRef;
        var componentScope = childComponentRef.instance;
        // testability hook is commonly added during component bootstrap in
        // packages/core/src/application_ref/boostrap.js
        if (process.env.NODE_ENV === 'production' || window.MS процент) {
            return;
        }
        var inputs = this.componentFactory.inputs || [];
        var _loop_1 = function (i) {
            var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
            var expr = null;
            if (attrs.hasOwnProperty(input.attr)) {
                var observeFn_1 = (function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        // Initially, both `$observe()` and `$watch()` will call this function.
                        if (!strictEquals(prevValue, currValue)) {
                            if (prevValue === INITIAL_VALUE) {
                                prevValue = currValue;
                            }
                        }
                        this.updateInput(prop, prevValue, currValue);
                        prevValue = currValue;
                    };
                })(input.prop);
                attrs.$observe(input.attr, observeFn_1);
            }
            else if (attrs.hasOwnProperty(input.bindAttr)) {
                expr = attrs[input.bindAttr];
            }
            else if (attrs.hasOwnProperty(input.bracketAttr)) {
                expr = attrs[input.bracketAttr];
            }
            else if (attrs.hasOwnProperty(input.bindonAttr)) {
                expr = attrs[input.bindonAttr];
            }
            else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
                expr = attrs[input.bracketParenAttr];
            }
            if (expr != null) {
                var watchFn = (function (prop) {
                    return function (currValue, prevValue) {
                        this.updateInput(prop, prevValue, currValue);
                    };
                })(input.prop);
                this.$watch(expr, watchFn);
            }
        };
        for (var i = 0; i < inputs.length; i++) {
            var watchFn = (function (prop) {
                return function (currValue, prevValue) {
                    this.updateInput(prop, prevValue, currValue);
                };
            })(input.prop);
            this.componentScope.$watch(expr, watchFn);
        }
    };

    setupInputs = function (manuallyAttachView, propagateDigest) {
        var _this = this;
        var propagateDigest = (propagateDigest === void 0) ? true : propagateDigest;
        var attr = this.attrs;
        var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
        var expr = null;
        if (attrs.hasOwnProperty(input.attr)) {
            var observeFn_1 = (function (prop) {
                var prevValue = INITIAL_VALUE;
                return function (currValue) {
                    // Initially, both `$observe()` and `$watch()` will call this function.
                    if (!strictEquals(prevValue, currValue)) {
                        if (prevValue === INITIAL_VALUE) {
                            prevValue = currValue;
                        }
                    }
                    _this.updateInput(prop, prevValue, currValue);
                    prevValue = currValue;
                };
            })(input.prop);
            attrs.$observe(input.attr, observeFn_1);
        } else if (attrs.hasOwnProperty(input.bindAttr)) {
            expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
            var watchFn = (function (prop) {
                return function (currValue, prevValue) {
                    _this.updateInput(prop, prevValue, currValue);
                };
            })(input.prop);
            this.componentScope.$watch(expr, watchFn);
        }
    };

    this.componentRef = this.componentFactory.create(this.scope, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref/bootstrap.js
    // in downgraded application, component creation will take
    // place here as well as adding the
    // testability hook.
    if (testability) {
        this.componentRef.injector.get(core.TestabilityRegistry)
            .registerApplication(this.componentRef.location.nativeElement, testability);
    }
    hookupNgModel(this.ngModel, this.component);
}
null

DowngradeComponentAdapter.prototype.setupOutputs = function () {
    var _attrs = this.attrs;
    var _outputs = this.componentFactory.outputs || [];
    for (var _j = 0; _j < _outputs.length; _j++) {
        var _output = new PropertyBinding(_outputs[_j].propName, _outputs[_j].templateName);
        var _bindonAttr = _output.bindonAttr.substring(0, _output.bindonAttr.length - 6);
        var _bracketParenAttr = "[" + _output.bracketParenAttr.substring(2, _output.bracketParenAttr.length - 8) + "]";
        // order below is
        // important - first update bindings then evaluate expressions
        if (_attrs.hasOwnProperty(_bindonAttr)) {
            this.subscribeToOutput(_output, _attrs[_bindonAttr], true);
        }
        if (_attrs.hasOwnProperty(_bracketParenAttr)) {
            this.subscribeToOutput(_output, _attrs[_bracketParenAttr], true);
        }
        if (_attrs.hasOwnProperty(_output.onAttr)) {
            this.subscribeToOutput(_output, _attrs[_output.onAttr]);
        }
        if (_attrs.hasOwnProperty(_output.parenAttr)) {
            this.subscribeToOutput(_output, _attrs[_output.parenAttr]);
        }
    }
}

DowngradeComponentAdapter.prototype.subscribeToOutput = function (_output, _expr, _isAssignment) {
    var _this = this;
    if (_isAssignment === void 0) { _isAssignment = false; }
    var _getter = this.$parse(_expr);
    var _setter = _getter.assign;
    if (_isAssignment && (!_setter)) {
        throw new Error("Expression '" + _expr + "' is not assignable!");
    }
    var _emitter = this.component[_output.prop];
    if (_emitter) {
        _emitter.subscribe({
            next: _isAssignment
                ? function (v) { return _setter(_this.scope, v); }
                : function (v) { return _getter(_this.scope, { '$event': v }); }
        });
    }
}

DowngradeComponentAdapter.prototype.registerCleanup = function () {
    var _testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
    var _destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
    var _destroyed = false;
    this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });
    this.componentScope.$on('$destroy', function () {
        if (_destroyed) {
            _destroyed = true;
            _testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);
            _destroyComponentRef();
        }
    });
}

DowngradeComponentAdapter.prototype.injector = function () {
    return this.componentRef.injector;
}

DowngradeComponentAdapter.prototype.updateInput = function (_prop, _prevValue, _currValue) {
    if (_this.implementsOnChanges) {
        _this.inputChanges[_prop] = new core.SimpleChange(_prevValue, _currValue, _prevValue === _currValue);
    }
    _this.inputChangeCount++;
    _this.component[_prop] = _currValue;
}

DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
    var _ngContentSelectors = this.componentFactory.ngContentSelectors;
    return

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Components please

* Visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs)
* For more details and examples on downgrading Angular components to AngularJS "downgraded" component.
* `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"
  *
  * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)
  * on the given content selectors.
* `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"
  *
  * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for \`downgrading\` an Angular component.
* `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"
  *
  * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.
* `{@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"
  *
  * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs)
Notes:
  // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
  // the same instance, but that is irrelevant):
  // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be
  //   on the same tree as the `NgModule` that declares this downgraded component
  //   - `finalParentInjector` is used for all other injection purposes.
  //    (Note that Angular knows to only traverse the component-tree part of that injector,
  //    when looking for an injectable and then switch to the module injector.)

  // There are basically three cases:
  // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
  //   `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component (and thus a `parentInjector`) and we are sure that it
  //   belongs to the same `NgModule` as this downgraded component (e.g. because there is
  //   only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and
  //   `finalParentInjector`).
  // - If there is a parent component, but it may belong to a different `NgModule`, then we
  //   use the `parentInjector` as `finalParentInjector` and this downgraded component
  //   declaring `NgModule`’s injector as `finalModuleInjector`.
  // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don’t
  //   bootstrap again).
  // Note 2: It is possible that (while there are multiple downgraded modules) this
  //   `NgModule` is already bootstrapped, we just get its injector (we don’t
  //   bootstrap again).
downgraded component and its parent component both belong to the same NgModule.

In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we aren't treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance.

If there is a parent component, use its injector as parent injector.

If this is a `\`top-level\` Angular component, use the module injector.

var finalParentInjector = parentInjector || moduleInjector;

If this is a `\`top-level\` Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies.

If there is a parent component that belongs to the same `NgModule`, use its injector.

var finalModuleInjector = moduleInjector || parentInjector;

var doDowngrade = function (injector, moduleInjector) {

 internals to the `NgModule`'s

 // component belongs to.

 var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);

 if (!componentFactory) {

 throw new Error(`\`Expecting ComponentFactory for: \` + getTypeName(info.component));

 }

 var injectorPromise = new ParentInjectorPromise(element);

 var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinline, Scompile, Sparse, componentFactory, wrapCallback);

 facade.createComponent(projectableNodes);

 facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

 facade.setupOutputs();

 facade.registerCleanup();

 injectorPromise.resolve(facade.getInjector());

 if (ranAsync) {

 // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected.

 scope.$evalAsync(function () { });

 }

 var downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {

 if (ngZone) {

 ngZone = mInjector.get(core.NgZone);

 }

 wrapCallback(function () { return doDowngrade(pInjector, mInjector); });

 }

 // NO  \n
 // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because it // Closure Compiler (or some related tool) complains.

 // TypeError:

 ...Src$downgrade_component_ParentInjectorPromise.all is not a function

 SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_) { 

 var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];

 return downgradeFn(pInjector, mInjector);

 });

 ranAsync = true;

 }

 };

 facade = directiveFactory['$injector'] = [

 Scompile, Sinjector,

 SPARSE];

 return directiveFactory;

 };

 /*\**

 Synchronize promise-like object to wrap parent injectors,

 * preserve the synchronous nature of AngularJS's 'Scompile'.

 */

 var ParentInjectorPromise = function (element) {

 var _this = super.call(this);

 _this.element = element;

 _this.injectorKey = controllerKey(INJECTOR_KEY);

 // Store the promise on the element.

 element.componentInstance.injectorKey = _this;

 return _this;

 };

 ParentInjectorPromise.prototype.resolve = function (injector) {

 // Store the real injector on the element.

 this.element.componentInstance.injectorKey = injector;

 // Release the element to prevent memory leaks.

 this.element = null;

 // Resolve the promise.

 super.prototype.resolve.call(this, injector);

 return ParentInjectorPromise;

 })(SyncPromise));

 /*\**

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 */

 * A helper function to allow an Angular service to be accessible from AngularJS.

 */

 * Part of the [upgrade/static](api?query=upgrade%2Fstatic)

 * library for hybrid upgrade apps that support AOT compilation

 */

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 */

 * @description

 */

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 */

 * A helper function to allow an Angular service to be accessible from AngularJS.

 */

 @description

 */

 /**

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 */

 * A helper function to allow an Angular service to be accessible from AngularJS.

 */
function that provides access to the Angular service identified by the `token` parameter.

First ensure that the service to be downgraded is provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have defined `HeroesService` and that we have included this in our upgrade app `NgModule` on an AngularJS module.

Now we can register the `downgradeInjectable` factory function for the service on an AngularJS module.

Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading.

When using `downgradeModule()`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated.

For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module. <br />

This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module in one `NgModule`. When using `downgradeModule()` on an AngularJS module, it is _not OK_ to use the service anywhere that belongs to the AngularJS module that provides them, as returned by a call to `downgradeModule()`.

It is the module, whose injector will be used for instantiating the injectable.

* @param token an `InjectionToken` that identifies a service provided from Angular.
* @param downgradedModule the name of the downgraded module (if any) that the injectable "belongs to", as returned by a call to `downgradeModule()`.

It is the module, whose injector will be used for instantiating the injectable. <br />

* This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module in one `NgModule`.

* @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.

* @publicApi

```javascript
function downgradeInjectable(token, downgradedModule) {
    if (downgradedModule === void 0) { downgradedModule = ''; }
    var factory = function ($injector) {
        var injectorKey = "" + INJECTOR_KEY + downgradedModule;
        var injectableName = isFunction(token) ? getTypeName(token) : String(token);
        var attemptedAction = "instantiating injectable '" + injectableName + "'";
        validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
        var injector = $injector.get(injectorKey);
        return injector.get(token);
    };
    factory['$inject'] = [$INJECTOR];
    return factory;
}
```

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** We have to do a little dance to get the ng1 injector into the module injector.

* We store the ng1 injector so that the provider in the module injector can access it

* Then we `get` the ng1 injector from the module injector, which triggers the provider to read it

* // The stored injector and release the reference to it.

* var tempInjectorRef = null;

* function setTempInjectorRef(injector) {

* tempInjectorRef = injector;

* function injectorFactory() {

* if (!tempInjectorRef) {

* throw new Error('Trying to get the AngularJS injector before it being set.');

* } var injector = tempInjectorRef

* return factory[$injector.get('$$injector')] || factory[$injector.get('$$injector').get('$$injector')].get('$$injector');

* }

* return injector;

* }

* return function rootScopeFactory(i) {

* return i.get('$rootScope');

* }

* return function compileFactory(i) {

* return i.get('$$compile');

* }

* return function parseFactory(i) {

* return i.get('$parse');

* }

* return angular1Providers = i

* // We must use exported named functions for the ng2 factories to keep the compiler happy.

* // > Metadata collected contains an error that will be reported at runtime.

* // > Function calls are not supported.

* // > Consider replacing the function or lambda with a reference to an exported function

* provide: 'Sinjector', useFactory: injectorFactory, deps: [] }

* provide: 'SrooScope', useFactory: rootScopeFactory, deps: ['$injector']

* provide: '$compile', useFactory: compileFactory, deps: ['$injector']

* provide: 'Sparse', useFactory: parseFactory,
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 */

var NgAdapterInjector = /** @class */ (function () {
    function NgAdapterInjector(modInjector) {
        this.modInjector = modInjector;
    }
    // When Angular locate a service in the component injector tree, the not found value is set to
    // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
    // injector. AngularJS only supports a single tree and should always check the module injector.
    NgAdapterInjector.prototype.get = function (token, notFoundValue) {
        if (notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
            return notFoundValue;
        }
        return this.modInjector.get(token, notFoundValue);
    };

    /**
     * @description
     *
     * A helper function for creating an AngularJS module that can bootstrap an Angular module
     * `'on-demand'` (possibly lazily) when a `{@link downgradeComponent}downgraded component`
     * needs to be instantiated. `{*Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that*
     * support AOT compilation.}`
     * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to
     * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
     * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
     * The Angular module will be bootstrapped once (when requested for the first time) and the
     * reference will be used from that point onwards.
     * `{*downgradeModule()} returns the name of the created AngularJS wrapper module. You can use it to
     * declare a dependency in your main AngularJS module.}`
     * Note that the Angular pieces (e.g. downgraded services) will not be
     * available until the downgraded module has been bootstrapped, i.e. by instantiating a downgrade
     * component. `{*You cannot use `{downgradeModule()} and `{UpgradeModule}` in the same hybrid application.}{@link
     * UpgradeModule} and `{UpgradeModule}` that affect the behavior of hybrid
     * applications.}`
     * 1. Unlike `{UpgradeModule}`, `{downgradeModule()} does not bootstrap the main AngularJS
     * module inside the `{@link NgZone Angular zone}.`{*2. Unlike `{UpgradeModule}`,
     * `{downgradeModule()} does not automatically run a}{@link $digest} when changes are detected in
     * the Angular part of the application.}`
     * This means that applications using `{UpgradeModule}` will run change detection more frequently in
     * order to ensure that both frameworks are properly notified about possible changes.
     * This will inevitably result in more change detection runs than necessary.
     * On the other side, does not try to tie the two change detection systems as tightly, restricting
     * the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs
     * of a downgraded component change). This improves performance, especially in change-detection-heavy
     * applications, but leaves it up to the developer to manually notify each framework as needed.
     * For a more detailed discussion of the differences and their implications, see
     */

    return NgAdapterInjector;
}());

moduleUid = 0;

/**
 * `{@example upgrade/static/ts/lite/module.ts region="basic-how-to"}`
 * For more details on how to use `{downgradeModule()} see
 * `{Upgrading for Performance}{@link module-upgrade-performance}`.
 * `{Apart from `{UpgradeModule}, you can use the rest of the `upgrade/static` helpers as
 * usual to build a hybrid application.}`
 * Note that the Angular pieces (e.g. downgraded services) will not be
 * available until the downgraded module has been bootstrapped, i.e. by instantiating a downgrade
 * component. `{You cannot use `{downgradeModule()} and `{UpgradeModule}` in the same hybrid application.}`
 * `Use one or the other.}`
 * `{# Differences with `{UpgradeModule} Besides their different API, there are two important internal
 * differences between `{downgradeModule()} and `{UpgradeModule}` that affect the behavior of hybrid
 * applications.}`
 * `{1. Unlike `{UpgradeModule}, `{downgradeModule()} does not bootstrap the main AngularJS
 * module inside the `{link NgZone Angular zone}.}`
 * `{2. Unlike `{UpgradeModule},
 * `{downgradeModule()} does not automatically run a}{@link $digest} when changes are detected in
 * the Angular part of the application.}`
 * This means that applications using `{UpgradeModule}` will run change detection more frequently in
 * order to ensure that both frameworks are properly notified about possible changes.
 * This will inevitably result in more change detection runs than necessary.
 * On the other side, does not try to tie the two change detection systems as tightly, restricting
 * the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs
 * of a downgraded component change). This improves performance, especially in change-detection-heavy
 * applications, but leaves it up to the developer to manually notify each framework as needed.
 * For a more detailed discussion of the differences and their implications, see
 */

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Performance (guide/upgrade-performance). You can manually trigger a change detection run in Angular using (scope.$apply(...)) or (scope.$digest()).

- You can manually trigger a change detection run in Angular using (@link NgZone#run@"@link NgZone#run(...)").

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an Angular application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as injectables, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).
- When using `@link PlatformRef#bootstrapmodule bootstrapModule()` or `bootstrapModuleFactory` to bootstrap the module, each one is considered a `\"root\"` module. As a consequence, a new instance will be created for every injectable provided in `\"root\"` (via `@link Injectable#providedIn`).
- If this is not your intention, you can have a shared module (that will act as the `\"root\"` module) and create all downgraded modules using that module's injector.

#### Things to keep in mind

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as injectables, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).
- When using `@link PlatformRef#bootstrapmodule bootstrapModule()` or `bootstrapModuleFactory` to bootstrap the module, each one is considered a `\"root\"` module. As a consequence, a new instance will be created for every injectable provided in `\"root\"` (via `@link Injectable#providedIn`).
- If this is not your intention, you can have a shared module (that will act as the `\"root\"` module) and create all downgraded modules using that module's injector.

```javascript
function downgradeModule(moduleFactoryOrBootstrapFn) {
    var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleUid;
    var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
    var lazyInjectorKey = "" + INJECTOR_KEY + lazyModuleName;
    var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
        moduleFactoryOrBootstrapFn :
        function (extraProviders) {
            return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
        };
    var injector;
    // Create an ng1 module to bootstrap.
    module_(lazyModuleName, [])
        .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
        .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
        .factory(lazyInjectorKey, function () {
            if (!injector) {
                throw new Error('Trying to get the Angular injector before bootstrapping the corresponding Angular module."
            }
            return injector;
        })
        .factory(LAZY_MODULE_REF,
            [lazyModuleRefKey, identity])
        .factory(lazyModuleRefKey, [INJECTOR_KEY, injector])
        .factory($injector, $injector)
        .factory($compile, $compile)
        .factory($controller, $controller)
        .factory($provide, $provide)

    return lazyModuleName;
}
```

@publicApi

```javascript
function downgradeModule(moduleFactoryOrBootstrapFn) {
    var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleUid;
    var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
    var lazyInjectorKey = "" + INJECTOR_KEY + lazyModuleName;
    var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
        moduleFactoryOrBootstrapFn :
        function (extraProviders) {
            return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
        };
    var injector;
    // Create an ng1 module to bootstrap.
    module_(lazyModuleName, [])
        .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
        .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
        .factory(lazyInjectorKey, function () {
            if (!injector) {
                throw new Error('Trying to get the Angular injector before bootstrapping the corresponding Angular module."
            }
            return injector;
        })
        .factory(LAZY_MODULE_REF,
            [lazyModuleRefKey, identity])
        .factory(lazyModuleRefKey, [INJECTOR_KEY, injector])
        .factory($injector, $injector)
        .factory($compile, $compile)
        .factory($controller, $controller)
        .factory($provide, $provide)

    return lazyModuleName;
}
```
AngularJS will transform \`link: xyz` to \`compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.

```javascript
if (directive.compile && !directive.link)
    notSupported(name, 'compile');
if (directive.replace)
    notSupported(name, 'replace');
if (directive.terminal)
    notSupported(name, 'terminal');
return directive;
```

```javascript
UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
    if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false; }
    if (directive.template !== undefined) {
        return getOrCall(directive.template, $element);
    } else if (directive.templateUrl) {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
        var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
        var url_1 = getOrCall(directive.templateUrl, $element);
        var template = $templateCache_1.get(url_1);
        if (template !== undefined) {
            return template;
        } else if (!fetchRemoteTemplate) {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
            throw new Error('loading directive templates asynchronously is not supported');
        } return new Promise(function (resolve, reject) {
            var $httpBackend = $injector.get($HTTP_BACKEND);
            $httpBackend('GET', url_1, null, function (status, response) {
                if (status === 200) {
                    resolve($templateCache_1.put(url_1, response));
                } else {
                    reject('GET component template from "' + url_1 + '" returned "' + status + ": " + response + '"');
                }
            });
        });
    } else {
        throw new Error("Directive '" + directive.name + "' is not a component, it is missing template.");
    }
}
```

```javascript
UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance // Quoted properties below so that this code can be optimized with Closure Compiler.
    var locals = { '$scope': $scope, '$element': this.$element };
    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    UpgradeHelper.prototype.compileTemplate = function (template) {
        if (template === undefined) {
            template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
        }
        return this.compileHtml(template);
    }
    UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
        if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
            controllerInstance.$onDestroy();
        }
        $scope.$destroy();
        // Clean the jQuery/jqLite data on the component+child elements. Equivalent to how jQuery/jqLite invoke `cleanData` on an Element.
        element.cleanData(
            UpgradeHelper.prototype.prepareTransclusion = function () {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
            var var_this = this;
            var transclude = this.directive.transclude;
            var contentChildNodes = this.extractChildNodes();
            var attachChildrenFn = function (scope, cloneAttachFn) {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
                // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if `transclude = this.directive.transclude` is empty. Since the transcluded content comes from Angular, not AngularJS, there will be no transclusion scope here.  // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
                scope = scope || { $destroy: function () { return undefined; } };
                return cloneAttachFn(Stemplate, scope);
            };
            var Stemplate = contentChildNodes;
            if (transclude) {
                var slots_1 = Object.create(null);
                if (typeof transclude === 'object') {
                    $template = [];
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    // Parse the element selectors.
                    Object.keys(transclude).forEach(function (slotName) {
                        var selector = transclude[slotName];
                        var optional = selector.charAt(0) === '?';
                        selector = optional ? selector.substring(1) :  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
                        var $element = getOrCall(directive.templateUrl, $element);
                        var template = $element.querySelectorAll('*');
                    });
                    UpgradeHelper.prototype.prepareTransclusion = function () {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !directive.link)` user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
                        UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {  // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an `if (directive.compile && !dire
selector;\n
slotMap_1[selector] = slotName;\n
slots_1[slotName] = null; // `null`:
Defined but not yet filled.\n
filledSlots_1[slotName] = optional; // Consider optional slots as filled.\n
});\n
// Add the matching elements into their slot.\n
contentChildNodes.forEach(function (node) {\n
var slotName =
slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];\n
if (slotName) {\n
filledSlots_1[slotName] = true;\n
slots_1[slotName] = slots_1[slotName] || [];\n
slots_1[slotName].push(node);\n
}\n
else {\n
$template.push(node);\n
}\n
});\n
// Check for required slots that were not filled.\n
Object.keys(filledSlots_1).forEach(function (slotName) {\n
if (!filledSlots_1[slotName]) {\n
throw new Error(\"Required transclusion slot '\" + slotName + \"' on directive: \" + _this.name);\n
}\n
});\n
Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
}).forEach(function (slotName) {\n
var nodes = slots_1[slotName];\n
slots_1[slotName]
= function (scope, cloneAttach) {\n
return cloneAttach(nodes, scope);\n
};\n
});\n
}\n
// Attach `$$slots` to default slot transclude fn.\n
attachChildrenFn.$$slots =
slots_1;\n
// AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n
// removes all text content after the first interpolation and updates it later, after\n
// evaluating the
expressions. This would result in AngularJS failing to recognize text\n
// nodes that start with an
interpolation as transcluded content and use the fallback\n
// content instead.\n
// To avoid this
issue, we add a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_nonjoiner)\n
// to empty text nodes (which can only be a result of Angular removing their initial content).\n
// NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n
//
will still fail to be detected by AngularJS v1.6+\n
$template.forEach(function (node) {\n
if
(node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n
node.nodeValue = '\\u200C';\n
}\n
});\n
}\n
return attachChildrenFn;\n
};\n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {\n
var
directiveRequire = this.getDirectiveRequire();\n
var requiredControllers =
this.resolveRequire(directiveRequire);\n
if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n
var requiredControllersMap_1 = requiredControllers;\n
Object.keys(requiredControllersMap_1).forEach(function (key) {\n
controllerInstance[key] =
requiredControllersMap_1[key];\n
});\n
}\n
return requiredControllers;\n
};\n
UpgradeHelper.prototype.compileHtml = function (html) {\n
this.element.innerHTML = html;\n
return
this.$compile(this.element.childNodes);\n
};\n
UpgradeHelper.prototype.extractChildNodes = function ()
{\n
var childNodes = [];\n
var childNode;\n
while (childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n
}\n
return
childNodes;\n
};\n
UpgradeHelper.prototype.getDirectiveRequire = function () {\n
var require =
this.directive.require || (this.directive.controller && this.directive.name);\n
if (isMap(require)) {\n
Object.keys(require).forEach(function (key) {\n
var value = require[key];\n
var match =
value.match(REQUIRE_PREFIX_RE);\n
var name = value.substring(match[0].length);\n
if
(!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n
return
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
var _this = this;\n
if (!require) {\n
return null;\n
}\n
else if (Array.isArray(require)) {\n
return require.map(function (req) { return _this.resolveRequire(req); });\n
}\n
else if (typeof
require === 'object') {\n
var value_1 = {};\n
Object.keys(require).forEach(function (key) { return
value_1[key] = _this.resolveRequire(require[key]); });\n
return value_1;\n
}\n
else if (typeof
require === 'string') {\n
var match = require.match(REQUIRE_PREFIX_RE);\n
var inheritType
= match[1] || match[3];\n
var name_1 = require.substring(match[0].length);\n
var isOptional =
!!match[2];\n
var searchParents = !!inheritType;\n
var startOnParent = inheritType === '^^';\n
var ctrlKey = controllerKey(name_1);\n
var elem = startOnParent ? this.$element.parent() :

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```javascript
this.$element;var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
if (!value & !isOptional) {
    throw new Error("Unable to find required '\" + require + '\" in upgraded
directive '\" + this.name + '\"\"\');
} return value;
} else {
    return UpgradeHelper();
}

function getOrCall(property) {
    var args = [];
    for (var _i = 1; _i < arguments.length; _i++) {
        args[_i - 1] = arguments[_i];
    }
    return isFunction(property) ?
        property.call(void 0, __spread(args)) : property;
}

// NOTE: Only works for `typeof T !== 'object'`.

function isMap(value) {
    return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name, feature) {
    throw new Error("Upgraded directive '\" + name + '\" contains
unsupported feature: '\" + feature + '\"\"\');
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

var NOT_SUPPORTED = 'NOT_SUPPORTED';
var INITIAL_VALUE$1 = {
    __UNINITIALIZED__: true
};

var Bindings = /** @class */ (function () {
    function Bindings() {
        this.twoWayBoundProperties = [];
        this.twoWayBoundLastValues = [];
        this.expressionBoundProperties = [];
        this.propertyToOutputMap = {};
    }
    return Bindings;
}());

/**
 * @description
 * A helper class that allows an AngularJS component to be
 * used from AngularJS.
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid
 * upgrade apps that support AOT compilation.*
 * This helper class should be used as a base class for
 * creating Angular directives\n * that wrap AngularJS components that need to be \"upgraded\".\n
 * @usageNotes
 * * specify the directive's selector (`ng1-hero`)\n * * specify all inputs and outputs that the AngularJS component expects
 * * derive from
 * `UpgradeComponent`\n * * call the base class from the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the `ElementRef` and `Injector` for the component wrapper\n * * [example
 * @publicApi
 * upgrade/static/ts/full/module.ts region="ng1-hero"\n * * The `elementRef` and `injector` parameters should be acquired from
 * Angular by dependency\n * injection into the base class constructor.\n
 * * specify all inputs and outputs that the AngularJS component expects\n * * derive from
 * `UpgradeComponent`\n * * call the base class from the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the `ElementRef` and `Injector` for the component wrapper\n * * [example
 * @publicApi
 * upgrade/static/ts/full/module.ts region="ng1-hero"\n * * We must create a `Directive` that will make this
 * AngularJS component\n * available inside Angular templates.\n
 * * specify the directive's selector (`'ng1-hero'`)\n * * specify all inputs and outputs that the AngularJS component expects\n * * derive from
 * `UpgradeComponent`\n * * call the base class from the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the `ElementRef` and `Injector` for the component wrapper\n * * [example
 * @publicApi
 * upgrade/static/ts/full/module.ts region="ng1-hero"\n * * We must create a `Directive` that will make this
 * AngularJS component\n * available inside Angular templates.\n
 * * specify the directive's selector (`'ng1-hero'`)\n * * specify all inputs and outputs that the AngularJS component expects\n * * derive from
 * `UpgradeComponent`\n * * call the base class from the constructor, passing

 * * specify the directive's selector (`'ng1-hero'`)\n * * specify all inputs and outputs that the AngularJS component expects\n * * derive from
 * `UpgradeComponent`\n * * call the base class from the constructor, passing
 */

UpgradeComponent.prototype.ngOnInit = function () {
    // Collect contents, insert
    and compile template\n    var attachChildNodes = this.helper.prepareTransclusion();
    var linkFn = this.helper.compileTemplate();
    // Instantiate controller\n    var controllerType =
```
this.directive.controller;  var bindToController = this.directive.bindToController;  if
  (controllerType) {  var controllerInstance = this.helper.buildController(controllerType,
    this.$componentScope);  } else if (bindToController) {  throw new Error("Upgraded
directive \" + this.directive.name + \" specifies \'bindToController\' but no controller.:\"+\n    }  // Set up outputs
  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
  this.bindOutputs();  // Require other controllers
  var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
  if (this.pendingChanges) {  this.forwardChanges(this.pendingChanges);
    this.pendingChanges = null;  }  // Hook: $onChanges
  if (isFunction(this.controllerInstance.$onChanges)) {  this.controllerInstance.$onChanges();
  }  // Hook: $onInit
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }  // Hook: $doCheck
  if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    var callDoCheck = function () { return _this.controllerInstance.$doCheck(); }
    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
    callDoCheck();
  }  // Linking
  var link = this.directive.link;
  var preLink = typeof link == 'object' && link.pre;
  var postLink = typeof link == 'object' ? link.post : link;
  var attrs = NOT_SUPPORTED;
  var transcludeFn = NOT_SUPPORTED;
  if (preLink) {
    preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }
  linkFn(this.$componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
  if (postLink) {
    postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }
  // Hook: $postLink
  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }  UpgradeComponent.prototype.ngOnChanges = function (changes) {
    if (!this.bindingDestination) {
      this.pendingChanges = changes;
    } else {
      this.forwardChanges(changes);
    }
  }  UpgradeComponent.prototype.ngDoCheck = function () {
    var _this = this;
    twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    var propertyName = propertyToOutputMap[propName];
    var oldValue = twoWayBoundLastValues[attrs];
    var newValue = this.caller.$element[propertyName];
    if (!core.looseIdentical(newValue, oldValue)) {
      var eventEmitter = _this[propertyName];
      eventEmitter.emit(newValue);
      twoWayBoundLastValues[attrs] = newValue;
    }
  }  UpgradeComponent.prototype.ngOnDestroy = function () {
    if (isFunction(this.unregisterDoCheckWatcher)) {
      this.unregisterDoCheckWatcher();
    }
  }  UpgradeComponent.prototype.initializeBindings = function (directive) {
    var btcIsObject = typeof directive.bindToController === 'object';
    if (btcIsObject && Object.keys(directive.scope).length) {
      throw new Error("Binding definitions on scope and controller at
        the same time is not supported.");
    }  var context = btcIsObject ? directive.bindToController :
    directive.scope;
    var bindings = new Bindings();
    if (typeof context == 'object') {
      Object.keys(context).forEach(function (propName, id) {
        var newValue = _this.caller.$element[propertyName];
        var oldValue = twoWayBoundLastValues[attrs];
        if (!core.looseIdentical(newValue, oldValue)) {
          var propertyName = propertyToOutputMap[propName];
          var eventEmitter = _this[propertyName];
          eventEmitter.emit(newValue);
          twoWayBoundLastValues[attrs] = newValue;
        }
      });
    }
    UpgradeComponent.prototype.ngOnDestroy = function () {
      if (isFunction(this.unregisterDoCheckWatcher)) {
        this.unregisterDoCheckWatcher();
      }
    }  UpgradeComponent.prototype.initializeBindings = function (directive) {
      var btcIsObject = typeof directive.bindToController === 'object';
      if (btcIsObject &&
        Object.keys(directive.scope).length) {
        throw new Error("Binding definitions on scope and controller at
          the same time is not supported.");
      }  var context = btcIsObject ? directive.bindToController :
        directive.scope;
    var bindings = new Bindings();
    if (typeof context == 'object') {
      var definition = context[propName];
      var bindingType = definition.charAt(0);
      // QUESTION: What about \'=\'? Ignore? Throw? Support?
      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // ngOnChanges() ;
          break;
        case '&':
          bindings.twoWayBoundProperties.push(INITIAL_VALUE$1);
          break;
        case '\':
          bindings.expressionBoundProperties.push(propName);
        default:
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // ngOnChanges();
          break;
      }
    }  UpgradeComponent.prototype.initializeBindings = function (directive) {
      var btcIsObject = typeof directive.bindToController === 'object';
      if (btcIsObject &&
        Object.keys(directive.scope).length) {
        throw new Error("Binding definitions on scope and controller at
          the same time is not supported.");
      }  var context = btcIsObject ? directive.bindToController :
        directive.scope;
    var bindings = new Bindings();
    if (typeof context == 'object') {
      var definition = context[propName];
      var bindingType = definition.charAt(0);
      // QUESTION: What about \'=\'? Ignore? Throw? Support?
      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // ngOnChanges();
          break;
        case '&':
          bindings.twoWayBoundProperties.push(INITIAL_VALUE$1);
          break;
        case '\':
          bindings.expressionBoundProperties.push(propName);
        default:
bindings.propertyToOutputMap[propName] = propName;

var json = JSON.stringify(context);
throw new Error("Unexpected mapping \\
" + bindingType + \\
" in \"" + json + \\
" in \"" + _this.name + \\
" directive.\")
return bindings;
}

UpgradeComponent.prototype.initializeOutputs = function () {
    var _this = this;
    // Initialize the outputs for `=` and `&` bindings
    this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
    .forEach(function (propName) {
        var outputName = _this.bindings.propertyToOutputMap[propName];
        _this[outputName] = new core.EventEmitter();
    });

    UpgradeComponent.prototype.bindOutputs = function () {
        var _this = this;
        // Bind `&` bindings to the corresponding outputs
        this.bindings.expressionBoundProperties.forEach(function (propName) {
            var outputName = _this.bindings.propertyToOutputMap[propName];
            var emitter = _this[outputName];
            _this.bindingDestination[propName] = function (value) { return emitter.emit(value); }
        });
    }

    UpgradeComponent.prototype.forwardChanges = function (changes) {
        var _this = this;
        // Forward input changes to bindingDestination
        Object.keys(changes).forEach(function (propName) { return _this.bindingDestination[propName] = changes[propName].currentValue; });
    }

/**
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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @description
 *
 * An NgModule, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade/static)
 * library for hybrid upgrade apps that support AOT compilation*
 * @usageNotes
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
* See also the [examples] below.

* Mental Model
*
When reasoning about how a hybrid application works it is useful to have a mental model which
* describes what is happening and explains what is happening at the lowest level.\n
* 1. There are two independent frameworks running in a single application, each framework treats
* the other as a black box.\n
* 2. AngularJS directives always execute inside the AngularJS framework codebase regardless of\n* where they are instantiated.\n
* 4. Angular components always execute inside the Angular framework codebase regardless of\n* where they are instantiated.\n
* 5. An AngularJS component can be \"upgraded\" to an Angular component. This is achieved by\n* defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See \`UpgradeComponent\`.\n
* 6. An Angular component can be \"downgraded\" to an AngularJS component. This is achieved by\n* defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See \`downgradeComponent\`.\n
* 7. Whenever an \"upgraded\" component is instantiated the host element is owned by the
framework doing the instantiation. The other framework then instantiates and owns the component. 1. This implies that the component bindings will always follow the semantics of the instantiation framework. 2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase. 3. However the template binding syntax will always use the Angular style, e.g. square brackets ('[...]') for property binding. 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. * Core AngularJS services
  * Importing this `NgModule` will add providers for the core services ([AngularJS services](https://docs.angularjs.org/api/ng/service)) to the root injector. * Bootstrap
  * The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. * It also contains properties to access the injector, the bootstrap `NgZone` and the `AngularJS $injector` ([AngularJS services](https://docs.angularjs.org/api/auto/service/$injector)). * Example
  * Import the `UpgradeModule` into your top level `NgModule` Angular `NgModule`
  * Upgrading an AngularJS service
  * There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:
    * Let's say you have an AngularJS service:
      * Then you should define an Angular provider to be included in your `NgModule` `providers` property.
  * Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`. * There is no specific API for upgrading an AngularJS service.

```typescript
UpgradeModule

```

// Bootstrap an AngularJS application from this NgModule
// @param element the element on which to bootstrap the AngularJS application
// @param [modules] the AngularJS modules to bootstrap for this application
// @param [config] optional extra AngularJS bootstrap configuration
UpgradeModule.prototype.bootstrap = function (element$1, modules, config /*angular.IAngularBootstrapConfig*/) {
    var _this = this;
    if (modules === void 0) { modules = []; }
    var INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';
    var initModule = module_(INIT_MODULE_NAME, [])
        .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)
        .value(INJECTOR_KEY, this.injector)
        .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])
        .config([function (SPOVIDE, SJECTOR, injector) {
            if ($injector.has($TESTABILITY)) {
                $provide.decorator($TESTABILITY, []
                    function (testabilityDelegate) {
                        var originalWhenStable = testabilityDelegate.whenStable;
                        var injector = _this.injector;
                        originalWhenStable.call(testabilityDelegate, function () {
                            var ng2Testability = // Cannot use arrow function below because we need the context
                        });
                    })
                SJECTOR.$injector.
            }
        }]);
```

---

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injected.get(core.Testability); 

} else { 

} 

ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

} 

if ($injector.has($INTERVAL)) { 

}$provide.decorator($INTERVAL, [ 

$DELEGATE, 

function (intervalDelegate) { 

// Wrap the $interval service so that setInterval is called outside NgZone, 

// but the callback is still invoked within it. This is so that $interval

// won't block stability, which preserves the behavior from AngularJS. 

var wrappedInterval = function (fn, delay, count, invokeApply) { 

var pass = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

// Run callback in the next VM turn - $interval calls

// $rootScope.$apply, and running the callback in NgZone will

// cause a 'digest already in progress' error if it's in the

// same vm turn.

setInterval(function () { _this.ngZone.run(function () { 

// rootScope.$apply, and running the callback

// passed to the callback

var subscription = _this.ngZone.onMicrotaskEmpty.subscribe(function () { 

if ($rootScope.$phase) { 

var $rootScope = $injector.get('$rootScope'); 

$rootScope.$digest(); 

} 

$rootScope.$on('$destroy', function () { 

$rootScope.$evalAsync(); 

}); 

return $rootScope.$evalAsync(); 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

var pass = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

}]); 

function (injector, $injector, function ($injector) { 

// Initialize the ng1 injector provider

setTempInjectorRef($injector); 

// Put the injector on the

// DOM, so that it can be 'required'

element(element$1).data(controllerKey(INJECTOR_KEY), 

$injector.get(INJECTOR_KEY)); 

// Wire up the ng1 rootScope to run a digest cycle whenever the zone settles

// We need to do this in the next tick so that we don't prevent the bootstrap

// stabilizing

setInterval(function () { 

var $rootScope = $injector.get('$rootScope'); 

$rootScope.$digest(); 

} 

); 

var subscription = _this.ngZone.onMicrotaskEmpty.subscribe(function () { 

if ($rootScope.$$phase) { 

var $rootScope = $injector.get('$rootScope'); 

$rootScope.$digest(); 

} 

$rootScope.$on('$destroy', function () { 

$rootScope.$evalAsync(); 

}); 

return $rootScope.$evalAsync(); 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

} 

$rootScope.$digest(); 

$rootScope.$on('destroy', function () { 

subscription.unsubscribe(); 

}); 

$rootScope.$on('destroy', function () { 

$injector.get(core.Testability).whenStable(newWhenStable.bind(testabilityDelegate, callback)); 

}); 

var args = [ ]; 

for (var _i = 4; _i < arguments.length; _i++) { 

pass[_i - 4] = arguments[_i]; 

} 

return intervalDelegate.apply(void 0, __spread([function () { 

arguments[_i] = arguments[_i] 

} 

]) 

var args = [ ]; 

for (var _i = 0; _i < arguments.length; _i++) { 

args[_i] = arguments[_i]; 

}
configuration.

@publicApi

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@privateApi

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Object.defineProperty(exports, '__esModule', { value: true });

)));
//# sourceMappingURL=upgrade-static-testing.umd.js.map
"
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js.map
No license file was found, but licenses were detected in source scan.

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* @license Angular v9.0.7
* (c) 2010-2020 Google LLC. https://angular.io/
* License: MIT
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/upgrade.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing/testing.d.ts
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MERCHANTABILITY OR NON-INFRINGEMENT.

See the Apache Version 2.0 License for specific language governing permissions
and limitations under the License.
***************************************************************************** */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-srczip/bundles/upgrade.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-srczip/bundles/upgrade.umd.min.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgradestatic.umd.js
No license file was found, but licenses were detected in source scan.
{"version":3,"file":"static.js","sources":["../../../../../../../packages/upgrade/src/common/src/angular1.ts","../../../../../../.
./packages/upgrade/src/common/src/constants.ts","../../../../../../../packages/upgrade/src/common/src/component_info.
ts","../../../../../../../packages/upgrade/src/common/src/util.ts","../../../../../../../packages/upgrade/src/common/src/down
grade_component_adapter.ts","../../../../../../../packages/upgrade/src/common/src/promise_util.ts","../../../../../../../pack
ages/upgrade/src/common/src/downgrade_component.ts","../../../../../../../packages/upgrade/src/common/src/downgra
de_injectable.ts","../../../../../../../packages/upgrade/src/common/src/version.ts","../../../../../../packages/upgrade/static/s
rc/angular1_providers.ts","../../../../../../packages/upgrade/static/src/util.ts","../../../../../../packages/upgrade/static/src/d
owngrade_module.ts","../../../../../../../packages/upgrade/src/common/src/upgrade_helper.ts","../../../../../../packages/up
grade/static/src/upgrade_component.ts","../../../../../../packages/upgrade/static/src/upgrade_module.ts","../../../../../../pa
ckages/upgrade/static/public_api.ts","../../../../../../packages/upgrade/static/index.ts","../../../../../../packages/upgrade/st
atic/static.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nexport type Ng1Token = string;\n\nexport type Ng1Expression = string |
Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions of `@types/angular`
typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not compatible with `$inject?:
ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function extends{$inject?: string[]}?
Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token | Function)[] |
IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport interface
IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\nexport interface ICompileService {\n (element: Element|NodeList|Node[]|string,
transclude?: Function): ILinkFn;\n}\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\nexport interface
IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n
$watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any,
...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n
$evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void):
Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\nexport
interface IScope extends IRootScopeService {}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean;
}\nexport interface IDirective {\n compile?: IDirectiveCompileFn;\n controller?: IController;\n controllerAs?:
string;\n bindToController?: boolean|{[key: string]: string};\n link?: IDirectiveLinkFn|IDirectivePrePost;\n name?:
string;\n priority?: number;\n replace?: boolean;\n require?: DirectiveRequireProperty;\n restrict?: string;\n
scope?: boolean|{[key: string]: string};\n template?: string|Function;\n templateUrl?: string|Function;\n

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```javascript
IAngularBootstrapConfig) =>
                 IInjectorService,
  module: (prefix: string, dependencies?: string[]) =>
  IModule,
  element: { (e: string | Element | Document | IAugmented JQuery): IAugmented JQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IModule>, strictDi?: boolean) =>
  IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal`
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window`. Returns the current AngularJS global.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules,
    config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
export const module_: typeof angular.module = (prefix,
    dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const
    getTestability: typeof angular.getTestability = e => angular.getTestability(e);

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const
    $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export
    $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export
    $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

resumeb: typeof angular.resumeBootstrap = (e, modules,
    config?) =>
    angular.resumeBootstrap(e, modules, config);

projectableNodes: typeof angular.projectableNodes =
    (nodes: Node[]): Node[];

private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`; this.bracketParenAttr = `\[\(${this.attr}\)\]`; this.onAttr = `on\${this.attr}`; this.bindAttr = `\${this.attr}
```
`bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}
"/**
 * @license
 * Copyright
 * Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from
    '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import
    {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[\-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-_.]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here! In
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return
    name.replace(DIRECTIVE_PREFIX_REGEXP, "")
        .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name ||
      type.toString().split('
')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
      $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return
      $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
                                                      UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof
      value === 'function';
}

export function validateInjectionKey($injector: IInjectorService,
    attemptedAction: string): void {
    const upgradeAppType =
        getUpgradeAppType($injector);
    const downgradedModuleCount = getDowngradedModuleCount($injector);

    // Check for common errors.
    switch (upgradeAppType) {
      case UpgradeAppType.Dynamic:
      case UpgradeAppType.Static:
        if (downgradedModuleCount >= 2) {
          throw new Error(
              `Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified.\n` +
              'This application contains more than one downgraded Angular
              module, thus you need to specify \'downgradedModule\' when downgrading components and
              injectables.');
        }
    }

    if (!$injector.has(injectionKey)) {
      throw new Error(
          `Error while ${attemptedAction}: Unable to find the specified downgraded module.\n` +
              'Did you forget to downgrade an Angular module or include it in the AngularJS
              'application?\n')
    }
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !:
      (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.\n  Static,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.\n *
 * @function supportsNgModel\n *     (component: any) \n *     return typeof
 *     component.writeValue === 'function' &&
 *     typeof component.registerOnChange === 'function';
 * @return
 * Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */

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component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove `!`. 
  private componentRef!: ComponentRef<any>;
  private component = this.componentRef.instance;
  // TODO(issue/24571): remove `!`. 
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove `!`. 
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
    private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    this.componentRef =
        this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.changeDetectorRef;
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    // const childInjector = Injector.create({ providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
    }
    hookSuupportNgModel(this.componentRef.location.nativeElement, testability);
    };
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (attrs.hasOwnProperty(input.attr)) {
        expr = input.attr;
      };
      const observeFn = (prop => {
        return (currValue: any) => {
          // Initially, both `observe()` and `$watch()` will call this function.
          if (strictEquals(prevValue, currValue)) {
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.observe(input.attr, observeFn);
    }
  }

  // Use `$watch()` (in addition to `$observe()`) in
order to initialize the input in time
        // for `ngOnChanges()` This is necessary if we are already in a `$digest`
        this.$watch(() => {
          return this.$scope.$eval(attr["input\.bindAttr"]);
        }, (prev, next) => {
          this.updateInput(prop, prevValue, currValue);
        }));

      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
      } else if (expr !== null) {
        const watchFn = (prop => (currValue: any, prevValue: any) => {
          this.updateInput(prop, prevValue, currValue);
        })(input.prop);
        this.$watch(expr, watchFn);
      }
    }

    // Invoke `ngOnChanges()` and Change Detection (when necessary)
    if (this.implementsOnChanges) {
      this.$watch(() => this.inputChanges, this.wrapCallback(() => {
        const inputChanges = this.inputChanges;
        this.inputChanges = {};
        if (propagateDigest) {
          (<OnChanges>this.component).ngOnChanges(inputChanges);
        } else {
          this.componentScope.$watch(this.wrapCallback(detectChanges));
        }
      }));

      // If opted out of propagating digests, invoke change detection when inputs change
      const detectChanges = () => this.changeDetector.detectChanges();
      const prototype = this.componentFactory.componentType.prototype;
      this.implementsOnChanges = !!((prototype && (<OnChanges>prototype).ngOnChanges));
    }

    // If necessary, attach the view so that it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || !propagateDigest) {
      let unwatch: Function|null = this.$watch(() => {
        unwatch !();
        unwatch = null;
        observeFn(attrs[input.attr]);
      });
      if (expr !== null) {
        const watchFn = (prop => (currValue: any) => {
          this.updateInput(prop, prevValue, currValue);
        })(input.prop);
        this.componentScope.$watch(expr, watchFn);
      }
    }

    // Invoke `ngOnChanges()`
    if (this.implementsOnChanges) {
      (<OnChanges>this.component).ngOnChanges();
    }

    // If not opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
      this.$watch(this.wrapCallback(detectChanges));
    }

    // If necessary, attach the view so that it will be dirty-checked.
    // (Allow time for the initial input values to be set and `$digest` to be called.)
    if (manuallyAttachView || !propagateDigest) {
      let unwatch: Function|null = this.$watch(() => {
        unwatch !();
        unwatch = null;
        observeFn(attrs[input.attr]);
      });
      if (expr !== null) {
        const watchFn = (prop => (currValue: any) => {
          this.updateInput(prop, prevValue, currValue);
        })(input.prop);
        this.componentScope.$watch(expr, watchFn);
      }
    }

    // Invoke `ngOnChanges()`
    if (this.implementsOnChanges) {
      (<OnChanges>this.component).ngOnChanges();
    }

    // If not opted out of propagating digests, invoke change detection when inputs change
    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype = this.componentFactory.componentType.prototype;
    this.implementsOnChanges = !!((prototype && (<OnChanges>prototype).ngOnChanges));
  }

  setupOutputs() {
    const attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
      const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
      const bracketParenAttr = `[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
      // order below is important - first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(output, attrs[bindonAttr], true);
      }
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true);
      }
      if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr]);
      }
      if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr]);
      }
    }
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as EventEmitter<any>
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new Error(`Missing emitter '${output.prop}' on component`);
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
    this.$watch(this.wrapCallback(() => {
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
      getInjector();
    }));
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }
  }

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```javascript
    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents !());
  }

  groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[]
  return projectableNodes[ngContentIndex].push(node);
}

/**
 * Group a set of DOM nodes
 * into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[] {
  const projectableNodes: Node[][] = [[]];
  let wildcardNgContentIndex: number;

  for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
    projectableNodes[i] = [[];
  }

  for (let j = 0, jj = nodes.length; j < jj; ++j) {
    const node = nodes[j];
    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
  const ngContentIndices: number[] = [];
  let wildcardNgContentIndex: number = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.oMatchesSelector || elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;
    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) callback(this.value);
    else {
      this.callbacks.push(callback);
      this.callbacks.length = 0;
      this.callbacks.then(callback => callback(this.value));
    }
  }
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive
 * for downgrading an Angular component.
 */

function downgrade_component_adapter() {
  return new DowngradeComponentAdapter();
}
```
have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
*
```
`finalParentInjector` is used for all other injection purposes. // (Note that Angular knows to only traverse the component-tree part of that injector, // when looking for an injectable and then switch to the module injector.) // There are basically three cases: // - If there is no parent component (thus no // `parentInjector`), we bootstrap the downgraded // `NgModule` and use its injector as both // `finalModuleInjector` and // `finalParentInjector`. // - If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as both // `finalModuleInjector` and // `finalParentInjector`. // - If there is a parent component, (and thus a // `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use the `parentInjector` as both // `finalModuleInjector` and // `finalParentInjector`). // Note 1: If the // `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again). // Note 2: It is possible that (while there are multiple downgraded modules) this // `finalModuleInjector` // downgraded component and its parent component both belong to the same `NgModule`. // In that case, we could have used the // `parentInjector` as both // `finalModuleInjector` and // `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor // and trying to resolve // `ComponentFactoryResolver` from either one will return // the same instance. // If there is a parent component, use its injector as parent injector. // If this is a "top-level" Angular component, use the module injector. // const finalParentInjector = parentInjector || moduleInjector; // If this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies. // If there is a parent component that belongs to the same `NgModule`, use its injector. // const finalModuleInjector = moduleInjector || parentInjector; // const doDowngrade = (injector: Injector, moduleInjector: Injector) => { // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this // component belongs to. // const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver); // const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) || throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`); // if (!componentFactory) { // throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`); // } // componentPromise = new ParentInjectorPromise(element); // const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback); // facade.createComponent(projectableNodes); // facade.setupInputs(isNgUpgradeLite, info.propagateDigest); // facade.setupOutputs(); // facade.registerCleanup(); // injectorPromise.resolve(facade.getInjector()); // if (ranAsync) { // // If this is run async, it is possible that it is not run inside $digest and initial input values will not be detected. // scope.$evalAsync(() => { // }); // } // const downgradeFn = (injector: Injector, mInjector: Injector) => { // if ($ngZone) { // ngZone = mInjector.get(NgZone); // } // wrapperCallback(() => doDowngrade(plInjector, mInjector)); // } // DIRECTIVE_FACTORY // `ParentInjectorPromise.all()` is not a function // SyncPromise.all([finalParentInjector, finalModuleInjector]) // .then(([plInjector, mInjector]) => doDowngradeFn(plInjector, mInjector)); // // bracket-notation because of closure: // - See #1444 // directiveFactory('$inject') = [$COMPILE, $INJECTOR, $PARSE]; // return directiveFactory(); // } // * Synchronous promise-like object to wrap parent injectors, * to preserve the synchronous nature of AngularJS's `$compile`. // * An `ParentInjectorPromise` extends `SyncPromise<Injector>`. // * `injectorKey` is the private key of this `ParentInjectorPromise`. // * `constructor(private element: IAugmentedJQuery) { super(); // Store the promise on the element. // element.data ![this.injectorKey, this]; resolve(injector: Injector): void { // Store the real injector on the element. // this.element.data
!(this.injectorKey, injector);\n  // Release the element to prevent memory leaks.\n  this.element = null !;\n  // Resolve the promise.\n  super.resolve(injector);\n} !n, ?/*\n  * @license\n  * Copyright Google Inc. All Rights Reserved.\n  */!n * Use of this source code is governed by an MIT-style license that can be !n * found in the LICENSE file at https://angular.io/license!n *𝐧ⁱⁿRenderTarget[Injector] from '@angular/core!n.jsp!n\n  [InjectOrService] from './angular1!nسؤ_ITEMPORT [Injector] from '@angular/core!njsp\n {getTypeName, isFunction, validateInjectionKey} from './util!n/**\n  * @description\n  * * A helper function to allow an Angular service to be accessible from AngularJS.\n
  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   *
   * Use of this source code is governed by an MIT-style license that can be
   * found in the LICENSE file at https://angular.io/license
   */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.\n  * *Part of the
  *   [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation!*\n
  * This helper function returns a factory function that provides access to the Angular!n * service identified by the
  * `token` parameter.\n  *!
  * @param token an `InjectionToken` that identifies a service provided from Angular.
  * @param downgradedModule the name of the downgraded module (if any) that the injectable
  * "belongs to", as returned
  * by a call to `downgradeModule()`. downgraded injectables will not be available until the Angular\n * module that provides them is instantiated. In order to be safe, you need to ensure that the\n * downgraded injectables are not used anywhere _outside_ the part of the app where it is\n * guaranteed that their module has been instantiated.\n  * * For example, it is _OK_ to use a downgraded service in an
  * upgraded component that is only used\n  * on a downgraded Angular module.
  * * It is _not OK_ to use it in an AngularJS component that may be used
  * independently of Angular or\n  * * use it in a downgraded Angular component from a different module.

  * (This option is only necessary when using `downgradeModule()` to downgrade more than one
  * Angular\n  * module.\n  * @param downgradedModule the name of the downgraded module (if any) that the injectable\n  * "belongs to", as returned
  * by a call to `downgradeModule()`.
  *
  * The module, whose injector will\n  * be used for instantiating the injectable.<br/>
  * (This option is only necessary when using `downgradeModule()` to downgrade more than one
  * Angular\n  * module.\n  * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be\n  * used to register the service on an AngularJS module.

  * @param token an `InjectionToken` that identifies a service provided from Angular.
  * @param downgradedModule the name of the downgraded module (if any) that the injectable\n  * "belongs to", as returned
  * by a call to `downgradeModule()`.
  *
  * The module, whose injector will\n  * be used for instantiating the injectable.<br/>

  * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be\n  * used to register the service on an AngularJS module.

  * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be\n  * used to register the service on an AngularJS module.

  * const attemptedAction = instantiateInjectable($injectableName);\n
  * validateInjectionKey(injector, downgradedModule,\n  * injectorKey);\n
  * attemptedAction);\n
  * injector = Injector.get(injectorKey);\n
  * return injector.get(token);\n
  * const injector = getInjectorService();\n
  * return injectorFactory();\n
  * throw new Error('Getting the AngularJS service before it being set.');\n
  */

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IInjectorService = tempInjectorRef; // clear the value to prevent memory leaks
return injector;
}

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, ɵNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // 'NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR'. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }
    return this.modInjector.get(token, notFoundValue);
  }
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {$INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a downgraded component needs to be instantiated.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT
 * compilation.*
 *
 * It allows loading/ bootstrapping the Angular part of a hybrid application lazily and not having
to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards.
 *
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 *   using `platformBrowser`'s `bootstrapModuleFactory`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an
 *   `NgModuleRef`. The function is called with an array of extra providers that are expected to be available from the returned
 * `NgModuleRef`.
 *
 * `downgradeModule()` allows loading/ bootstrapping the Angular part of a hybrid application lazily and not having
to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards.
 *
 * `downgradeModule()` returns the name of the created AngularJS module.
 *
 * <!-- Example: -->

 * function downgradeModule() {
 *   return new NgModuleRef(
 *     new NgModuleFactory(
 *       new NgAdapterInjector()
 *     )
 *   );
 * }
 *
 * // Call the downgradeModule function:
 * angular1Providers.forEach(angular1Provider => {
 *   // Pass the `NgModuleFactory` or module factory as a callback:
 *   downgradeModule(angular1Provider);
 * });
 *
 * // Use the Angular module:
 * angularModule
 *   .platformBrowser(iframeId)
 *   .init()
 *   .then(
 *     () => {
 *       angular1Providers.forEach(angular1Provider => {
 *         // Use the `NgModuleRef`:
 *         const moduleRef = angular1ModuleRef;
 *         moduleRef
 *           .initializeModule(angular1Provider)
 *           .then(() => {
 *             // Do something with the Angular module:
 *             angular1ModuleRef
 *               .bootstrapApp()
 *               .then(() => {
 *                 // All done.
 *               })
 *               .catch(error => {
 *                 // Handle error.
 *               });
 *           })
 *           .catch(error => {
 *             // Handle error.
 *           });
 *       });
 *       // Use the Angular module:
 *       injectableFunction();
 *     });
 * });
 */

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You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. Use one or the other.

Besides their different API, there are two important internal differences between `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the Angular part of the application. What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary.

2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` when changes are detected in the Angular part of the application. This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes.

This improves performance especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see `Upgrading for Performance`.

Besides their different API, there are two important internal differences between `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the Angular part of the application. What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes.

This improves performance especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see `Upgrading for Performance`.

You can manually trigger a change detection run in AngularJS using `scope.$apply(...)` or `[$rootScope.$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)`.

You can manually trigger a change detection run in Angular using `@link NgZone.run()`.

It is possible to downgrade multiple modules and include them in an AngularJS application. In this case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

- If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser`).

Downgrading multiple modules:

When creating the `PlatformRef` (e.g. via `platformBrowser`), you can manually trigger a change detection run in AngularJS using `scope.$apply(...)` or `$rootScope.$digest()`.

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`NgAdapterInjector(ref.injector);`\n
```javascript
injector.get($INJECTOR);\n
return result;\n```

```javascript
return injector;\n```

`});\n
```javascript
config([$INJECTOR, $PROVIDE,\n
($injector: IInjectorService, $provide: IProvideService) => {

$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);\n
}]);\n
return lazyModuleName;\n```

```javascript
function identity<T = any>(x: T): T {
  return x;
}
```

```javascript
/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {

[key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;

  public readonly directive: IDirective;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective)
  {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }

    const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`
    // if (directive.compile &
    // !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string | Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const template = $templateCache.get(directive templateUrl);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', directive templateUrl, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(directive templateUrl, response));
          } else {
            reject(`GET component template from '${directive templateUrl}' returned '${status}: ${response}'`);    
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);    
    }

  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, 'Element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data !(controllerKey(this.directive.name !), controller);

    const compileTemplate = (template: string) => ILIFnk($scope, $element, this.directive, false, locals);
    $httpBackend('GET', url, null, (status: number, response: string) => {
      if (status === 200) {
        return resolve(compileTemplate.response().put(url, response));
      } else {
        reject('GET component template from '$url' returned '${status}: $response'');
      }    
    });

    this.$element.data !(controllerKey(this.directive.name !), controller);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if
ControllerInstance && isFunction(controllerInstance.$onDestroy))

controllerInstance.$onDestroy();

$scope.$destroy();

// Clean the jQuery/jqLite data on the component+child elements.

// Equivalelt to how jQuery/jqLite invoke ‘cleanData’ on an Element (this.element)

https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223

https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2a7b0d864d688c82/src/jqLite.js#L306-L312

// ‘cleanData’ will invoke the AngularJS `$destroy` DOM event

https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2a7b0d864d688c82/src/Angular.js#L1911-L1924

angularElement.cleanData(this.element);
childNodes.push(childNode);
    }
    return childNodes;
  }

  private getDirectiveRequire():
    DirectiveRequireProperty {
      const require = this.directive.require || (this.directive.controller &&
      this.directive.name) !;
      if (isObject(require))
        Object.keys(require).forEach(key => {
          const value = require[key] !;
          const match = value.match(REQUIRE_PREFIX_RE) !;
          const name = value.substring(match[0].length) !;
          if (name)
            require[key] = match[0] + key;
        });
    }

    return require;
  }

  private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any) {
    if (require)
      return require.map(req => this.resolveRequire(req));
    else if (Array.isArray(require))
      return require.map(req => this.resolveRequire(req));
    else if (isObject(require))
      return Object.keys(require).reduce((value, key) => {
        return { ...value, [key]: this.resolveRequire(require[key]) ! }; // Note: this line is recursive
      }, {});
    else if (typeof require === 'string')
      const match = require.match(REQUIRE_PREFIX_RE) !;
      const inheritType = match[1] || match[3];
      const name = require.substring(match[0].length);
      const isOptional = !!match[2];
      const searchParents = !!inheritType;
      const ctrlKey = controllerKey(name) !;
      const elem = searchParents ? this.$element.parent() : this.$element;
      const value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
      if (!value)
        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.directive.name}'.`);
    }
    else {
      throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.directive.name}'.`);
    }
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

/**
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 * can be found in the LICENSE file at https://angular.io/license
 */

import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];
  expressionBoundProperties: string[] = [];
  propertyToOutputMap: {
    [propName: string]: string
  } = {};
  @description
  A helper class that allows an AngularJS component to be used from
  Angular.
  @partOf the [upgrade/static/api?query=upgrade%2Fstatic] library for hybrid upgrade apps that
  support AOT compilation.
  @this helper class should be used as a base class for creating Angular directives
  that wrap AngularJS components that need to be upgraded.
  @usageNotes
  Examples:
  Let's assume that you have an AngularJS component called 'ng1Hero' that needs
  to be made available in Angular templates:

  ```html
  <ng1-hero *ng* @license
  Copyright Google Inc. All Rights Reserved
  ```

  We must create a `Directive` that will make this AngularJS component available inside Angular templates:

  ```html
  <ng1-hero *ng* @license
  ```
  Note that we must do the following:
  * specify the directive's selector (`ng1-hero`)
  * specify all inputs and outputs that the AngularJS component expects
  * derive from the `UpgradeComponent` base class but also provide an `[link Directive]` decorator.
  This isn't because the AOT compiler requires that this information is statically available at compile time.

  ```html
  ```

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$componentScope: IScope; 

private directive: IDirective; 

private bindings: Bindings; 

// TODO(issue/24571): remove '!'.
private controllerInstance : IControllerInstance; 

// TODO(issue/24571): remove '!'.
private bindingDestination : IBindingDestination; 

// We will be instantiating the controller in the 'ngOnInit' hook, when the
// first 'ngOnChanges' will have been already triggered. We store the
// 'SimpleChanges' and 'play them back!' later. 

// TODO(issue/24571): remove '!'.
private pendingChanges : SimpleChanges | null; 

// QUESTION 1: Should we create an isolated scope if the scope is only true?
// QUESTION 2: Should we make the scope accessible through 'ngOnChanges'?

this.$componentScope = $parentScope.$new(!!this.directive.scope); 

// We ask for the AngularJS scope from the Angular injector, since
// we will put the new component scope onto the new injector for each component

const $injector = this.helper.$injector; 

this.$scope = $injector.$new(); 

this.$element = this.helper.$element; 

this.directive = this.initializeBindings(this.directive); 

// Instantiate controller

const controllerType = this.directive.controller; 

const bindToController = this.directive.bindToController; 

if (controllerType) { 

  this.controllerInstance = this.helper.buildController(controllerType, 

  this.$componentScope); 

} else if (bindToController) { 

  throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`); 

}

this.$exports = {}; 

this.$exports.S certainScope = injector.get(SSCOPE); 

// QUESTION 1: Should we create an isolated scope if the scope is only true?
// QUESTION 2: Should we make the scope accessible through 'ngOnChanges'?

this.$componentScope = injector.$new(); 

// Collect contents, insert and compile template

const attachChildNodes: ILinkFn|undefined = 

this.helper.prepareTransclusion(); 

const linkFn = this.helper.compileTemplate(); 

// Instantiate controller

const controllerType = this.directive.controller; 

const bindToController = this.directive.bindToController; 

if (controllerType) { 

  this.controllerInstance = this.helper.buildController(controllerType, 

  this.$componentScope); 

} else if (bindToController) { 

  throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`); 

}

// Set up outputs

this.$exports = {}; 

// Require other controllers

const requiredControllers = 

this.helper.resolveAndBindRequiredControllers(this.controllerInstance); 

// Hook: $onChanges

if (this.pendingChanges) { 

  this.forwardChanges(this.pendingChanges); 

  this.pendingChanges = null; 

} // Hook: $onInit

// Hook: $doCheck

const twoWayBoundProperties = this.bindings.twoWayBoundProperties; 

const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues; 

const propertyToOutputMap = 

this.bindings.propertyToOutputMap; 

this.$exports.S certainScope = injector.get(SSCOPE); 

this.$exports.S certainScope = injector.get(SSCOPE); 

// Hook: $postLink
```typescript
const btcIsObject = typeof directive.bindToController === 'object';
if (btcIsObject && Object.keys(directive.scope).length) {
    switch (bindingType) {
        case '@':
        case '<':
            // We don’t need to do anything special. They will be defined as inputs on the
            // upgraded component facade and the change propagation will be handled by
            // `ngOnChanges()`. 
            break;
        case '=':
            bindings.twoWayBoundProperties.push(propName);
            bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            break;
        case '&':
            bindings.expressionBoundProperties.push(propName);
            bindings.propertyToOutputMap[propName] = propName;
            break;
        default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
    }
}
```

```typescript
ngOnDestroy() { 
    if (isFunction(this.unregisterDoCheckWatcher)) { 
        this.unregisterDoCheckWatcher();
    }
    this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}
```

```typescript
private initializeOutputs() { 
    this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
        .forEach(propName => {
            const outputName = this.bindings.propertyToOutputMap[propName];
            (this as any)[outputName] = new EventEmitter();
        });
}
```

```typescript
private bindOutputs() { 
    this.bindings.expressionBoundProperties.forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        const emitter = (this as any)[outputName];
        this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
}
```

```typescript
forwardChanges(changes: SimpleChanges) { 
    Object.keys(changes).forEach(
        propName => this.bindingDestination[propName] = changes[propName].currentValue);
    if (isFunction(this.bindingDestination.onChanges)) {
        this.bindingDestination.onChanges(changes);
    }
}
```

```typescript
/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid application.
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.
 */
import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';
import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
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 */
import {UpgradeModule} from '@angular/upgrade';
import {UpgradeComponent} from '@angular/upgrade/upgrade';
import {UpgradeController} from '@angular/upgrade/upgrade';

UpgradeModule
```
below.

4. Creation of an AngularJS service that wraps and exposes an Angular injectable
so that it can be injected into an AngularJS context. See `downgradeInjectable`.

3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
coexisting in a single application.

import {UpgradeModule} from '@angular/upgrade/static';

See also the [@link UpgradeModule#examples examples] below.

### Mental Model

1. There are two independent frameworks running in a single application, each framework
   treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework
   instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.

3. AngularJS directives always execute inside the AngularJS framework codebase regardless of whether they are instantiated.

4. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

5. An AngularJS component can be \`upgraded\` to an Angular component. This is achieved by defining an Angular directive, which bootstraps the Angular component at its location in the DOM. See `UpgradeComponent`.

6. An Angular component can be \`downgraded\` to an AngularJS component. This is achieved by defining an Angular directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

7. Whenever an \`upgraded\`/\`downgraded\` component is instantiated, the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.

1. This implies that the component bindings will always follow the semantics of the instantiation framework.

2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.

3. However the template binding syntax will always use the Angular style, e.g. square brackets `[...]' for property binding.

Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.

The \`UpgradeModule\` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

### Examples

Import the `UpgradeModule` into your top level `NgModule`.

Import it into your Angular `NgModule` and use it to bootstrap the top level Angular `NgModule` onto an element in the DOM for the hybrid upgrade application.

It also contains properties to access the `UpgradeModule` injector root injector, the bootstrapped AngularJS and the AngularJS `injector`.

Import the `UpgradeModule` into your top level Angular `NgModule` and use it to bootstrap the top level Angular `NgModule`.

Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

1. Let's say you have an AngularJS service:

2. Then you should define an Angular provider to be included in your AngularJS `providers`:

3. Then you can use the \`upgraded\` AngularJS service by injecting it into an Angular component:

4. The AngularJS \`Sinjector\` for the upgrade application.
The Angular Injector

```typescript
public injector: Injector;

constructor(
    /** The root `Injector` for the upgrade application. */
    injector: Injector,
    /** The bootstrap zone for the upgrade application */
    public ngZone: NgZone)
    { this.injector = new NgAdapterInjector(injector); }

/** Bootstrap an AngularJS application from this NgModule */
public bootstrap(element: Element, modules: string[] = [], config?: any) {
    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';
    // Create an ng1 module to bootstrap
    const initModule = angularModule(INIT_MODULE_NAME, []);
    // Initialize the ng1 $injector provider
    setTempInjectorRef($injector);
    this.injector.get($INJECTOR);
    // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
    // Need to do this in the next tick so that we don't prevent the bootstrap
    // same vm turn.
    setTimeout(() => { this.ngZone.runOutsideAngular(function () {
        // Run callback in the next VM turn - $interval calls
        // $rootScope.$apply, and running
        // the callback is still invoked within it. This is so that
        // won't block stability, which preserves
        // the behavior from AngularJS.
        wrappedInterval = fn;
    }, delay, count, invokeApply, ...pass); });
    return wrappedInterval;
}
```

Sprovidedeforator($TESTABILITY, [DELEGATE, testabilityDelegate: ITestabilityService] => {
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    const injector = this.injector;
    const newWhenStable = function (callback: Function) {
        originalWhenStable.call(testabilityDelegate, function () {
            const ng2Testability: Testability = injector.get(Testability);
            if (ng2Testability.isStable()) {
                callback();
            } else {
                ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));
            }
        });
    };
    testabilityDelegate.whenStable = newWhenStable;
    return testabilityDelegate;
});
```

Sprovidedeforator($INTERVAL, [DELEGATE, intervalDelegate: IIntervalService] => {
    let wrappedInterval = fn; // Wrap the $interval service so that setInterval is called outside NgZone,
    // but
    // the callback is still invoked within it. This is so that
    // won't block stability, which preserves
    // the behavior from AngularJS.
    wrappedInterval = fn;
    return wrappedInterval;
});
```

SetTempInjectorRef($injector); // Put the injector on the DOM, so that it can be
angularElement(element).data
```

const this.$injector = $injector; // Initialize the ng1 $injector provider
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```
```
bootstrap is deferred
    const windowAngular = (window as any)['angular'];
    windowAngular.resumeBootstrap = undefined;

    // Bootstrap the AngularJS application inside our zone
    this.ngZone.run(() => {
      bootstrap(element, [upgradeModule.name], config);
    });

    // Patch resumeBootstrap() to run inside the ngZone
    if (windowAngular.resumeBootstrap) {
      const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
      const originalResumeBootstrap: () => void =
        function() {
          let args = arguments;
          return ngZone.run(() =>
            windowAngular.resumeBootstrap.apply(this, args));
        };

      // Bootstrap the AngularJS application inside our zone
      this.ngZone.run(() => {
        bootstrap(element, [upgradeModule.name], config);
      });
    }
  }
}

/**
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 */

export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
  '../src/common/src/angular1';
export {downgradeComponent} from
  '../src/common/src/downgrade_component';
export {downgradeInjectable} from
  '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';
export {downgradeModule} from './src/downgrade_module';
export {UpgradeComponent} from
  './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';


// This file only re-exports
  // items to appear in the public api. Keep it that way.
  // This file is not used to build this module. It is only used during
  // editing to rewrite private symbol names from .public_api/index.ts when it
  // rewrites private symbols.

export * from './public_api';

export * from './index';

export {angular1Providers as angular_packages_upgrade_static_specific_e,
  compileFactory as angular_packages_upgrade_static_specific_c,
  injectorFactory as angular_packages_upgrade_static_specific_a,
  parseFactory as angular_packages_upgrade_static_specific_d,
 rootScopeFactory as angular_packages_upgrade_static_specific_b} from
  './src/angular1_providers';
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js.map
No license file was found, but licenses were detected in source scan.

/**
* @license Angular v9.0.7
* (c) 2010-2020 Google LLC. https://angular.io/
* License: MIT
*/

*/!*******************************************************************************/

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* found in the LICENSE file at https://angular.io/license
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-
static-testing.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-
static-testing.umd.min.js
No license file was found, but licenses were detected in source scan.
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 * https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

/**
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 *
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 * https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of '@types/angular' typings extend the global 'Function' interface with
  // $inject?: string[], which is not compatible with $inject?: ReadonlyArray<string> (used in
  // latest versions).
  $inject?: string[];
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {[slotName: string]: ILinkFn};
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {[key: string]: any}[];
  futureParentElement?: Node;
}

export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{[key: string]: string};
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  priority?: number;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean|{[key: string]: string};
  template?: string|Function;
  templateUrl?: string|Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes,
   transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {[key: string]: string};
  require?: DirectiveRequireProperty;
  transclude?: DirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
}

export interface ITranscludeFunction {
  (element: Element|NodeList|Node[]|string): IAugmentedJQuery;
  (cloneAttachFn: ICloneAttachFunction): IAugmentedJQuery;
  (scope: IScope): IAugmentedJQuery;
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (v: string) => void): void;
  $on(event: string, fn?: (event?: any, ...args?: any[]) => void): void;
  $destroy(): void;
  $apply(exp?: Ng1Expression): any;
  $digest(): void;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args?: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}

export interface IRootScopeService {}

export interface IDirectivePrePost {
  (pre?: IDirectiveLinkFn): void;
  (post?: IDirectiveLinkFn): void;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {[key: string]: string};
  controller?: any;
  transclude?: ITranscludeFunction;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
}

export interface ITranscludeFunction {
  (element: Element|NodeList|Node[]|string): IAugmentedJQuery;
  (cloneAttachFn: ICloneAttachFunction): IAugmentedJQuery;
  (scope: IScope): IAugmentedJQuery;
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
  (pre?: IDirectiveLinkFn): void;
  (post?: IDirectiveLinkFn): void;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {[key: string]: string};
  controller?: any;
  transclude?: ITranscludeFunction;
}
(see https://github.com/angular/angular/issues/30050).

export const module_: typeof angular.module = (prefix,
dependencies?) => angular.module(prefix, dependencies); export const element: typeof angular.element = (e) => angular.element(e); export const injector: typeof angular.injector = angular.injector(modules, strictDi?); export const $compile: typeof angular.$compile = (); export const $controller: typeof angular.$controller = ($controller: INgModelController) => string;
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) ;

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`. Static,
  // App using `@angular/upgrade/static` with `downgradeModule()`. (a.k.a. `ngUpgrade-lite`).
  Static,

  // App
  // using @angular/upgrade/static with `downgradeModule()` (a.k.a `ngUpgrade-lite`).
  Lite,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the
 * `ControlValueAccessor` interface needed for AngularJS `ng-model`
 * compatibility. (a.k.a. dynamic
 * `ngUpgrade`).
 */
export function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
private inputChangeCount: number = 0;
private inputChanges: SimpleChanges = {};
private componentScope: IScope;

// TODO(issue/24571): remove `!`.
private componentRef!: ComponentRef<any>;

private component: any;
private changeDetector!: ChangeDetectorRef;
private viewChangeDetector!: ChangeDetectorRef;

constructor(
    element: IAugmentedJQuery, attrs: IAttributes, scope: IScope,
    ngModel: INgModelController, parentInjector: Injector,
    parentInjector: Injectable, private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, componentFactory: ComponentFactory<any>,
    wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();

    this.componentRef = componentFactory.create(childInjector,
        projectableNodes, element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap().
    // It will be called here when adding the
    // testability hook.
    if (testability) {
        this.componentRef.injector.get(TestabilityRegistry).
            registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookupNgModel(this.ngModel, this.component);
}

setupInputs(manuallyAttachView: boolean,
    propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
        const input = new PropertyBinding(inputs[i].propName,
            inputs[i].templateName);
        let expr: string|null = null;

        if (attrs.hasOwnProperty(input.attr)) {
            const observeFn = (prop => {
                let prevValue = INITIAL_VALUE;
                return (currValue: any) => {
                    if (!strictEquals(prevValue, currValue)) {
                        if (prevValue === INITIAL_VALUE) {
                            prevValue = currValue;
                        }
                        this.updateInput(prop, prevValue, currValue);
                        prevValue = currValue;
                    }
                };
            })(input.prop);
            attrs.$observe(input.attr, observeFn);

            // Use `$watch()` (in addition to `$observe()`) in
            // order to initialize the input in time
            let unwatch: Function|null = this.componentScope.$watch(expr, () => {
                unwatch();
            });

        } else if (attrs.hasOwnProperty(input.bindAttr)) {
            expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
            const watchFn =
                (prop => (currValue:
                    any, prevValue: any) =>
                this.updateInput(prop, prevValue, currValue))(input.prop);
            this.componentScope.$watch(expr, watchFn);
        }
    }

    // Invoke `ngOnChanges()` and Change Detection
    // (when necessary)
    const detectChanges = () => this.handleChange.detectChanges();
    if (implementsOnChanges = true) {
        detectChanges();
    }
}
this.viewChangeDetector.markForCheck();  
// If opted out of propagating digests, invoke change detection when inputs change.
if (!propagateDigest) {

detectChanges();
}  
// If not opted out of propagating digests, invoke change detection on every digest
if (propagateDigest) {
}  
}  

this.componentScope.$watch(this.wrapCallback(detectChanges));
  
// If necessary, attach the view so that it will be dirty-checked.
if (manuallyAttachView || !propagateDigest) {
  
let unwatch: Function|null = this.componentScope.$watch(() => {
    unwatch !();
    unwatch = null;
  });
  
const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
appRef.attachView(this.componentRef.hostView);  

}  

// order below is important - first update bindings then evaluate expressions
if (attrs.hasOwnProperty(bindonAttr)) {
  
this.subscribeToOutput(output, attrs[bindonAttr], true);  
}  

if (attrs.hasOwnProperty(bracketParenAttr)) {
  
this.subscribeToOutput(output, attrs[bracketParenAttr], true);  
}  

if (attrs.hasOwnProperty(output.onAttr)) {
  
this.subscribeToOutput(output, attrs[output.onAttr]);  
}  

if (attrs.hasOwnProperty(output.parenAttr)) {
  
this.subscribeToOutput(output, attrs[output.parenAttr]);  
}  

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  
const getter = this.$parse(expr);
  
const setter = getter.assign;
  
if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  
const emitter = this.component[output.prop] as EventEmitter<any>;
  
if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter!(this.scope, v) :
                       (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component '${getTypeName(this.componentFactory.componentType)}'!`);
  }

private updateInput(prop: string, prevValue: any, currValue: any) {
  
if (this.implementsOnChanges) {
    
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }

this.inputChangeCount++;
  
this.component[prop] = currValue;
}

groupProjectableNodes() {
  
let ngContentSelectors = this.componentFactory.ngContentSelectors;
  
return groupNodesBySelector(ngContentSelectors, this.element.contents !());
}

function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  
const projectableNodes: Node[][] = 

  let wildcardNgContentIndex: number;  

  for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {  
    
    let ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);  

    if (ngContentIndex !== null) {  
      
      ngContentNodes.push(node!);  
    }  
    
    function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
      
      let wildcardNgContentIndex: number;  

      for (let i = 0; i < ngContentSelectors.length; ++i) {  
        
        if (matchesSelector(element, selector)) {  
          
          ngContentIndices.push(i!);  
        }  
      }  

      ngContentIndices.push(wildcardNgContentIndex!);  

      return ngContentIndices.length ? ngContentIndices[0] :
Open Source Used In MSX Cloud UTD Service Pack 3.9.0
If set to `false`, change detection will still be performed when any of the component's inputs changes. (Default: true) * @returns a factory function that can be used to register the component in an AngularJS module. * @public * `@export`

function downgradeComponent(info: { component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; } /** @deprecated since v4. This parameter is no longer used */ inputs?: string[]): any /* angular.IInjectable */ {
  const directiveFactory:
      IAnnotatedFunction = function(
          $compile: ICompileService, $injector: IInjectorService, $parse:
      IParseService): IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    //   Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
    //   force it back in).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

    // When downgrading multiple modules, special handling is needed w.r.t injectors:
    const hasMultipleDowngradedModules =
        isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

    return {
      restrict: 'E',
      terminal: true,
      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
      link: (scope: IScope, element:
        IAugmentedJQuery, attrs: IAttributes, required: any[]): any => {
        // We might have to compile the contents asynchronously, because this might have been
        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
        // been compiled.
        const ngModel: INgModelController =
            required[1];
        const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
        let

        moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
        let

        moduleInjector =
            lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

        // Notes:
        //
        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // the same instance, but that is irrelevant).
        // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
        //   be on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is used for all other injection purposes.
        // (Note that Angular knows to only traverse the component-tree part of that injector).
        // when looking for an Injectable and then switch to the module
        // injector.
        // There are basically three cases:
        // - If there is no parent component (thus no
        //   `parentInjector`), we bootstrap the downgraded
        //   `NgModule` and use its injector as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`.
        // - If there is a parent component (and thus a
        //   `parentInjector`) and we are sure that it
        //   belongs to the same `NgModule` as this downgraded component
        // (e.g. because there is only one
        //   downgraded module, we use that `parentInjector` as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`).
        // - If there is a parent component, but it may belong to a different
        //   `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded
        //   component
        //   declaring `NgModule`'s `injector` as `finalModuleInjector`.
        // Note 1: If the
        // `NgModule` is already bootstrapped, we just get its injector (we don't
        // bootstrap again).
        // Note 2: It is possible that (while there are multiple downgraded modules) this
        // downgraded component and its parent component both belong to the same NgModule.
        // In that case, we could have used the
        // `parentInjector` as both
        // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
        // treating this case as if they belong to different `NgModule`s. That doesn't
        // really affect

        // validateInjectionKey($injector, downgradeModule = info.downgradedModule
        //  "\n        // const lazyModuleRef = $injector.get(lazyModuleRefKey)
        // as LazyModuleRef; moduleInjector =
        // lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>
        //  "\n        // Notes: `\n        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // `finalModuleInjector` and
        // `finalParentInjector`.
        // - If there is a parent component (and thus a
        //   `parentInjector`) and we are sure that it
        //   belongs to the same `NgModule` as this downgraded component
        // (e.g. because there is only one
        //   downgraded module, we use that `parentInjector` as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`.
        // - If there is a parent component, but it may belong to a different
        //   `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded
        //   component
        //   declaring `NgModule`'s `injector` as `finalModuleInjector`.
        // Note 1: If the
        // `NgModule` is already bootstrapped, we just get its injector (we don't
        // bootstrap again).
        // Note 2: It is possible that (while there are multiple downgraded modules) this
        // downgraded component and its parent component both belong to the same NgModule.
        // In that case, we could have used the
        // `parentInjector` as both
        // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
        // treating this case as if they belong to different `NgModule`s. That doesn't
        // really affect

        // validateInjectionKey($injector, downgradeModule = info.downgradedModule
        //  "\n        // const lazyModuleRef = $injector.get(lazyModuleRefKey)
        // as LazyModuleRef; moduleInjector =
        // lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>
        //  "\n        // Notes: `\n        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // `finalModuleInjector` and
        // `finalParentInjector`.
        // - If there is a parent component (and thus a
        //   `parentInjector`) and we are sure that it
        //   belongs to the same `NgModule` as this downgraded component
        // (e.g. because there is only one
        //   downgraded module, we use that `parentInjector` as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`.
        // - If there is a parent component, but it may belong to a different
        //   `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded
        //   component
        //   declaring `NgModule`'s `injector` as `finalModuleInjector`.
        // Note 1: If the
        // `NgModule` is already bootstrapped, we just get its injector (we don't
        // bootstrap again).
        // Note 2: It is possible that (while there are multiple downgraded modules) this
        // downgraded component and its parent component both belong to the same NgModule.
        // In that case, we could have used the
        // `parentInjector` as both
        // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
        // treating this case as if they belong to different `NgModule`s. That doesn't
        // really affect
anything, since `parentInjector` has `moduleInjector` as ancestor\n
//
and trying to resolve
`ComponentFactoryResolver` from either one will return\n
//
the same instance.\n\n
// If there is a
parent component, use its injector as parent injector.\n
// If this is a \"top-level\" Angular component, use the
module injector.\n
const finalParentInjector = parentInjector || moduleInjector !;\n\n
// If this is a \"toplevel\" Angular component or the parent component may belong to a\n
// different `NgModule`, use the module
injector for module-specific dependencies.\n
// If there is a parent component that belongs to the same
`NgModule`, use its injector.\n
const finalModuleInjector = moduleInjector || parentInjector !;\n\n
const
doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n
// Retrieve `ComponentFactoryResolver`
from the injector tied to the `NgModule` this\n
// component belongs to.\n
const
componentFactoryResolver: ComponentFactoryResolver =\n
moduleInjector.get(ComponentFactoryResolver);\n
const componentFactory: ComponentFactory<any> =\n
componentFactoryResolver.resolveComponentFactory(info.component) !;\n\n
if (!componentFactory) {\n
throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);\n
}\n\n
const injectorPromise = new ParentInjectorPromise(element);\n
const facade = new
DowngradeComponentAdapter(\n
element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n
componentFactory, wrapCallback);\n\n
const projectableNodes = facade.compileContents();\n
facade.createComponent(projectableNodes);\n
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n
facade.setupOutputs();\n
facade.registerCleanup();\n\n
injectorPromise.resolve(facade.getInjector());\n\n
if (ranAsync) {\n
// If this is run async, it is possible
that it is not run inside a\n
// digest and initial input values will not be detected.\n
scope.$evalAsync(()
=> {});\n
}\n
};\n\n
const downgradeFn =\n
!isNgUpgradeLite ? doDowngrade : (pInjector:
Injector, mInjector: Injector) => {\n
if (!ngZone) {\n
ngZone = pInjector.get(NgZone);\n
}\n\n
wrapCallback(() => doDowngrade(pInjector, mInjector))();\n
};\n\n
// NOTE:\n
// Not
using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because\n
// Closure Compiler (or
some related tool) complains:\n
// `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a
function`\n
SyncPromise.all([finalParentInjector, finalModuleInjector])\n
.then(([pInjector, mInjector])
=> downgradeFn(pInjector, mInjector));\n\n
ranAsync = true;\n
}\n };\n };\n\n // bracket-notation because
of closure - see #14441\n directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];\n return
directiveFactory;\n}\n\n/**\n * Synchronous promise-like object to wrap parent injectors,\n * to preserve the
synchronous nature of AngularJS's `$compile`.\n */\nclass ParentInjectorPromise extends SyncPromise<Injector>
{\n private injectorKey: string = controllerKey(INJECTOR_KEY);\n\n constructor(private element:
IAugmentedJQuery) {\n super();\n\n // Store the promise on the element.\n element.data !(this.injectorKey,
this);\n }\n\n resolve(injector: Injector): void {\n // Store the real injector on the element.\n this.element.data
!(this.injectorKey, injector);\n\n // Release the element to prevent memory leaks.\n this.element = null !;\n\n //
Resolve the promise.\n super.resolve(injector);\n }\n}\n","/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Injector} from '@angular/core';\nimport
{IInjectorService} from './angular1';\nimport {$INJECTOR, INJECTOR_KEY} from './constants';\nimport
{getTypeName, isFunction, validateInjectionKey} from './util';\n\n/**\n * @description\n *\n * A helper function to
allow an Angular service to be accessible from AngularJS.\n *\n * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT compilation*\n
*\n * This helper function returns a factory function that provides access to the Angular\n * service identified by the
`token` parameter.\n *\n * @usageNotes\n * ### Examples\n *\n * First ensure that the service to be downgraded is
provided in an `NgModule`\n * that will be part of the upgrade application. For example, let's assume we have\n *
defined `HeroesService`\n *\n * {@example upgrade/static/ts/full/module.ts region=\"ng2-heroes-service\"}\n *\n *
and that we have included this in our upgrade app `NgModule`\n *\n * {@example upgrade/static/ts/full/module.ts
region=\"ng2-module\"}\n *\n * Now we can register the `downgradeInjectable` factory function for the service\n *
on an AngularJS module.\n *\n * {@example upgrade/static/ts/full/module.ts region=\"downgrade-ng2-heroes-

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Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading. When using `downgradeModule()`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. For example, it is OK to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is not OK to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.

In an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading.

When using `downgradeModule()`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated.

```
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(private injector: Injector, private name: string, elementRef: ElementRef, directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length !== 1) {
      throw new Error('Only support single directive definition for: ' + name);
    }
    const directive = directives[0];

    if (directive.directives.length > 1) {
      throw new Error('Only support single directive definition for: ' + name);
    }

    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;

  }
$injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
const url =
getOrCall<string>(directive.templateUrl, $element);\nconst template = $templateCache.get(url);\nif (template !== undefined) {\n  \n  \n} else if (!fetchRemoteTemplate) {\n  throw new Error('loading directive templates asynchronously is not supported');\n} \nreturn new Promise((resolve, reject) => {\n  \n  \n});\n\nbuildController(controllerType: IController, $scope: IScope) {\n  \n  \n};\n\nprepareTransclusion(): ILinkFn|undefined {\n  \n  \n};\n\ncreateTranscludeAttachFunction: ILinkFn = (scope, cloneAttachFn) => {\n  \n  \n};\n\ncreateTranscludeAttachFunction = (scope, cloneAttachFn) => {\n  \n  \n};\n\nbuildController(controllerType: IController, $scope: IScope) {\n  \n  \n};\n\ncompileTemplate(template?: string): ILinkFn {\n  \n  \n};\n\nonDestroy($scope: IScope, controllerInstance?: any) {\n  \n  \n};\n\nattachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {\n  \n  \n};\n\nattachChildrenFn = (scope, cloneAttachFn) => {\n  \n  \n};
evaluating the expressions. This would result in AngularJS failing to recognize text nodes that start with an interpolation as transcluded content and use the fallback content instead. To avoid this issue, we add a zero-width non-joiner character to empty text nodes (which can only be a result of Angular removing their initial content).

```javascript
const directiveRequire = this.getDirectiveRequire();
const requiredControllers = this.resolveRequiredControllers();

if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
  const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};
  Object.keys(requiredControllersMap).forEach(key => {
    controllerInstance[key] = requiredControllersMap[key];
  });
}
```

```javascript
private resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequiredControllers();

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};
    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  }

  return attachChildrenFn;
}
```

```javascript
private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}
```

```javascript
private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node|null;

  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }

  return childNodes;
}
```

```javascript
private getDirectiveRequire(): DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller && this.directive.name) !;

  if (isMap(require)) {
    Object.keys(require).forEach(key => {
      const value = require[key];
      const match = value.match(REQUIRE_PREFIX_RE) !;
      const name = value.substring(match[0].length);

      if (!name) {
        require[key] = match[0] + key;
      }
    });
  }

  return require;
}
```

```javascript
private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null {
  if (!require) {
    return null;
  } else if (Array.isArray(require)) {
    return require.map(req => this.resolveRequire(req));
  } else if (typeof require === 'object') {
    const value: {[key: string]: IControllerInstance} = {};
    Object.keys(require).forEach(key => value[key] = this.resolveRequire(require[key]) !);
    return value;
  } else if (typeof require === 'string') {
    const match = require.match(REQUIRE_PREFIX_RE) !;
    const inheritType = match[1] || match[3];
    const name = require.substring(match[0].length);
    const isOptional = !!match[2];
    const searchParents = !!inheritType;
    const startOnParent = inheritType === '^^';
    const ctrlKey = controllerKey(name);
    const elem = startOnParent ? this.$element.parent () : this.$element;
    const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);

    if (!value && !isOptional) {
      throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
    }

    return value;
  } else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':
    ${require}!`);
  }
}
```

```javascript
// NOTE: Only works for `typeof T !== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {
  return !Array.isArray(value) && typeof value === 'object';
}
```

```javascript
function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}
```

```javascript
import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnInit, OnChanges, SimpleChange, SimpleChanges, Type} from '@angular/core';
import {$SCOPE} from '../../common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../common/src/upgrade_helper';
```
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```typescript
outputs: string[] = [];
outputsRename: string[] = [];
propertyOutputs: string[] = [];
checkProperties: string[] = [];
propertyMap: {[name: string]: string} = {};
directive: IDirective|null = null; // TODO(issue/24571):
remove '!' in template !: string;
constructor(public name: string) { const selector = name;
  name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());
  const self = this;

  const this.type = MyClass;
  this.directive = this.directive || undefined;
  this.inputs = self.inputs;
  this.outputs = self.outputs;
  this.propertyMap = self.propertyMap;
  this.inputsRename = [];
  this.outputsRename = [];
  this.propertyOutputs = [];
  this.checkProperties = [];
  this.propertyMap = {};
  this.directive = null; // TODO(tbosch): find or file a bug against TypeScript for this.
  const directive = { selector: this.directive, inputs: this.inputsRename, outputs: this.outputsRename };
  const template = this.directive && this.directive.template;

  @Directive({jit: true, ...directive})
  class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(
        new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,
        self.directive && this.outputsRename, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap)
    }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];

directive: IDirective; element: Element; Selement: any = null; componentScope: IScope; constructor(
  private helper: UpgradeHelper, scope: IScope, private template: string,
  private inputs: string[], private outputs: string[],
  private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {
  this.directive = helper.directive; this.element = helper.element; this.Selement = helper.Selement;
  this.componentScope = scope; this悴(): void;}

  @directive({jit: true, ...directive})
  class MyClass extends UpgradeHelper implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(
        new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,
        self.directive && this.outputsRename, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap)
    }
}

class UpgradeHelper implements OnInit, OnChanges, DoCheck {
  private helper: UpgradeHelper; scope: IScope; private template: string;
  private inputs: string[];
  private outputs: string[];
  private propOuts: string[];
  private checkProperties: string[];
  private propertyMap: {[key: string]: string} = {};

directive: IDirective; element: Element; Selement: any = null; componentScope: IScope; constructor(
  private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private outputs: string[],
  private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {
  this.directive = helper.directive; this.element = helper.element; this.Selement = helper.Selement;
  this.componentScope = scope; this悴(): void;}

  @directive({jit: true, ...directive})
  class MyClass extends UpgradeHelper implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(
        new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,
        self.directive && this.outputsRename, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap)
    }
}
```
emitter = (this as any)[outputs[j]] = new EventEmitter<any>();
      if (this.propOuts.indexOf(outputs[j]) !== -1)
        emitter.emit(value);
      }
    }
    for (let k = 0; k < propOuts.length; k++) {
      this.checkLastValues.push(INITIAL_VALUE);
    }
  }

  ngOnInit() {
    // Collect contents, insert and
    compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType,
        this.componentScope);
    }

    // Require other controllers
    const requiredControllers =
      this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }

    // Linking
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }
  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      this.controllerInstance.$doCheck();
    }

    if (this.controllerInstance && isFunction(this.controllerInstance.ngOnDestroy)) {
      this.controllerInstance.ngOnDestroy();
    }

    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  setComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }

  ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.ngOnDestroy)) {
      this.controllerInstance.ngOnDestroy();
    }
  }

  ngOnDestroy() {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability,
    Type, isDevMode, resolveForwardRef} from '@angular/core';
  import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

  import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService,
    IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_
    as angularModule} from '../../common/src/angular1';
  import {$$TESTABILITY, $COMPILE, $INJECTOR,
    $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY,
    UPGRADE_APP_TYPE_KEY} from './common/src/constants';
  import { downgradeComponent } from './common/src/downgrade_component';
  import { downgradeInjectable } from './common/src/downgrade_injectable';

  import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey,
    onError} from './common/src/util';

  import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

  let upgradeCount: number = 0;

  /**
   * Use `UpgradeAdapter` to allow AngularJS
   * and Angular to coexist in a single application.
   * (See [UpgradeAdapter#downgradeNg2Component()])
   */

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When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.

AngularJS directives always execute inside AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside Angular framework codebase regardless of where they are instantiated. An AngularJS component can be upgraded to an Angular component. This creates an Angular directive, which boots the AngularJS component directive in that location. The Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which boots the Angular component in that location.

Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.

```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)
  }
});

module.directive('ng1-hello', function($compile) {
  return {
    transclude: (scope, elem, attrs) => {
      return ng1-hello(elem[0], $compile); // Evaluates to a DOM element
    }
  }
});

@Injectable() class Ng2Component {
  // ...
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
}) class MyNg2Module {}
```

The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`. Example:

```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)
  }
});

module.directive('ng1-hello', function($compile) {
  return {
    transclude: (scope, elem, attrs) => {
      return ng1-hello(elem[0], $compile); // Evaluates to a DOM element
    }
  }
});

@Injectable() class Ng2Component {
  // ...
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
}) class MyNg2Module {}
```

```
document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';

adapter.bootstrap(document.body, ['myExample']).then(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!]!<span ng-transclude>(transclude)](project)');
});
```

```
@deprecated
```
@publicApi
```
### Supported Features
- **Bindings:**
  - Attribute: `<comp name="World">`
  - Interpolation: `<comp greeting="Hello {{name}}!">`
  - Expression: `<comp [name]="username">`
- **Event:** `<comp (close)="doSomething()">`
- **ng-model:** `<comp ng-model="name">`

### Example
```java
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
* const module = angular.module('myExample', []);*
* module.directive('greet', adapter.downgradeNg2Component(Greeter));
* @Component({
*   selector: 'greet',
*   * template: '{[salutation]} {{name}}! - <ng-content></ng-content>'
* })
* class Greeter {
*   @Input() salutation: string;
*   @Input() name: string;
*   constructor(salutation: string, name: string) {
*     this.salutation = salutation;
*     this.name = name;
*   }
*   greet() {
*     return this.salutation + ' ' + this.name + '!
*   }
* }
* @NgModule({
*   declarations: [Greeter],
*   imports: [BrowserModule]
* })
* class MyNg2Module {}
* document.body.innerHTML = '<greet salutation="Hello" [name]="world">text</greet>';
* adapter.bootstrap(document.body, ['myExample']).ready(function() {
*   expect(document.body.textContent).toEqual("Hello world! - text");
* });
```

---

`* Allows AngularJS Component to be used from Angular.*
* * Use `upgradeNg1Component` to create an Angular component from AngularJS Component's directive. The adapter will bootstrap AngularJS component from within the Angular template.

### Mental Model
1. The component is instantiated by being listed in Angular template. This means that the host element is controlled by Angular, but the component's view will be controlled by AngularJS.

### Supported Features
- **Bindings:**
  - Attribute: `<comp name="World">`
  - Interpolation: `<comp greeting="Hello {{name}}!">`
  - Expression: `<comp [name]="username">`
  - Event: `<comp (close)="doSomething()">`
  - Transclusion: yes
- **Only some of the features of** `AngularJS Component` **are supported:**
  - `compile`: not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
  - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not supported.)
  - `controllerAs`: supported.
  - `bindToController`: supported.
  - `link`: supported.
  - `replace`: not supported.
  - `require`: supported. (NOTE: only pre-link function is supported.)
  - `restrict`: must be set to 'E'.
  - `scope`: supported.
  - `template`: supported.
  - `templateUrl`: supported.
  - `terminal`: ignored.
  - `transclude`: supported.
- **Component**
- `@usageNotes` *### Mental Model
- **Component**
- `@usageNotes`

---

`* Allows AngularJS Component to be used from Angular.*
* * Use `upgradeNg1Component` to create an Angular component from AngularJS Component's directive. The adapter will bootstrap AngularJS component from within the Angular template.

### Mental Model
1. The component is instantiated by being listed in Angular template. This means that the host element is controlled by Angular, but the component's view will be controlled by AngularJS.

### Supported Features
- **Bindings:**
  - Attribute: `<comp name="World">`
  - Interpolation: `<comp greeting="Hello {{name}}!">`
  - Expression: `<comp [name]="username">`
  - Event: `<comp (close)="doSomething()">`
  - Transclusion: yes
- **Only some of the features of** `AngularJS Component` **are supported:**
  - `compile`: not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
  - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not supported.)
  - `controllerAs`: supported.
  - `bindToController`: supported.
  - `link`: supported.
  - `replace`: not supported.
  - `require`: supported. (NOTE: only pre-link function is supported.)
  - `restrict`: must be set to 'E'.
  - `scope`: supported.
  - `template`: supported.
  - `templateUrl`: supported.
  - `terminal`: ignored.
  - `transclude`: supported.
- **Component**
- `@usageNotes`
upgradeAdapter.registerForNg1Tests(['heroApp']);

```typescript
upgradeAdapter.registerForNg1Tests(['heroApp']);

// Register for tests
upgradeAdapter.registerForNg1Tests(['heroApp']);

// Track progress
upgradeAdapter.registerForNg1Tests(['heroApp']);

// Perform upgrade
upgradeAdapter.registerForNg1Tests(['heroApp']);

// Initialize tests
upgradeAdapter.registerForNg1Tests(['heroApp']);

// Execute tests
upgradeAdapter.registerForNg1Tests(['heroApp']);
```
DynamicNgUpgradeModule {
    constructor() {
        ngDoBootstrap()
    }
}

platformRef
    .bootstrapModule(
        DynamicNgUpgradeModule,
        [this.compilerOptions !,
         {ngZone: this.ngZone}]
    ).then((ref: NgModuleRef<unknown>) => {
        this.moduleRef = ref;
        this.ngZone.run(() => {
            rootScopePrototype.$apply = original$applyFn; // restore original $apply
        });
    })
    .catch((e) =>
        this.ng2BootstrapDeferred.reject(e));

return ng1Module;
}

/**
 * Synchronous promise-like object to wrap parent injectors, * to preserve the synchronous nature of AngularJS's $compile.
 * @class ParentInjectorPromise
 * @since 4.2.0
 */
class ParentInjectorPromise {
    private injector !: Injector;
    private callbacks: ((injector: Injector) => any)[] = [];

    constructor(private element: IAugmentedJQuery) {
        // store the promise on the element
        element.data!(controllerKey(INJECTOR_KEY), this);
    }

    then(callback: (injector: Injector) => any) {
        if (this.injector) {
            callback(this.injector);
        } else {
            this.callbacks.push(callback);
        }
    }

    resolve(injector: Injector) {
        this.injector = injector;

        // reset the element data to point to the real injector
        this.element.data!(controllerKey(INJECTOR_KEY), injector);

        // clean out the element to prevent memory leaks
        this.element = null !;

        // run all the queued callbacks
        this.callbacks.forEach((callback) => callback(injector));
        this.callbacks.length = 0;
    }
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 * @publicApi
 */
export class UpgradeAdapterRef {
    /* @internal */
    private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

    public ng1RootScope: IRootScopeService = null !;
    public ng1Injector: IInjectorService = null !;
    public ng2ModuleRef: NgModuleRef<any> = null !;
    public ng2Injector: Injector = null !;

    /* @internal */
    private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
        this.ng2ModuleRef = ngModuleRef;
        this.ng2Injector = ngModuleRef.injector;
        this.ng1Injector = ng1Injector;
        this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
        this._readyFn &&
        this._readyFn(this);
    }

    /**
     * Register a callback function which is notified upon successful hybrid
     * AngularJS / Angular
     * application has been bootstrapped.
     * The `ready` callback function is invoked
     * inside the Angular zone, therefore it does not require a call to `$apply()`.
     * @public
     */
    public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
        this._readyFn = fn;
    }

    /**
     * Dispose of running hybrid
     * AngularJS / Angular application.
     * @public
     */
    public dispose() {
        this.ng1Injector!.get($ROOT_SCOPE).$destroy();
        this.ng2ModuleRef!.destroy();
    }
}

/**
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 * the LICENSE file at https://angular.io/license
 */

// This file only re-exports content of the `src` folder. Keep it that way.

export * from './public_api';

// This file is not used to build this module. It is only used during editing by the TypeScript language service and during build for verification. `ngc` replaces this file with production index.ts when it rewrites private symbols to the same application.

version : '5.0.3'

ngc

/**
 * Generated bundle index. Do
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js.map

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


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IL,EAACvB,GAeAeIE,MAE9CgR,EAAsBjQ,UAaU+P,KAAO,SAaUcC,GACzC/Q,KAk6D,SAcLkN,EAAS/Q,KAAk6D,UAAGd7D,KAk6Q,UAaUN,KAAk4N,IAg5BC,EAAsBjQ,UAaU2G,QAaU,SAaU7O,GAChD7D,KAk6D,SAaUaC,EAEhB7D,KAk4D,QAaUnK,NKAkIL,EAACvB,GAAeh,GAE/C7D,KAk4D,QAaU,AKEf5D,KAk6Q,UAaU/G,SAaQ,SAaUyH,GAAY,OAaOA,EAAS1N,MAC7D7D,KAk6Q,UAaU7O,OAAS,GAAbY,GAkCL,WACnC,SAAS6b,IAELrd,KAAk6gB,SAaWA,KAcB7gB,KAAk8gB,aAAc,KACpBgB,KAAKuD,YAAc,KAAKuD,KAAk6gB,aAAe,EACpBgB,KAAKuY,YAAc,EAASlN,MAC7D7D,KAAk6gB,SAAS7gB,OAASnCqg,EAACkBvC,UAaAumgB,MAAQ,SAaUcC,GAAMhB,KAAKuD6gB,SAaW,GAIpE9D,EAACkBvC,UAaUqgB,QAaU,WACIcB7g,B,KAAKuD,YAA5YW,LA2DP,eA2DwDB2W,HAClCtO,KAA+gB,aAAa5S,WAeIkP,EAhC2B;;;;;;;AaWdIC/d,EAQQe,hAAeB1aE,EAACzBrr,EAQ+d,jBAAoBA,EAEC5B/d,EAQQW,QAaUA,EAEBK,OAaAO+B,EAACe/AEAS,aAAc,CAAC8D,OAAO",sourcesContent":[]}
if (!Symbol.asyncIterator) throw new TypeError('Symbol.asyncIterator is not defined.');

var m = o(Symbol.asyncIterator), i = [], verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i;

function verb(n) { i[n] = o[n] && function (v) { return new Promise(function(resolve, reject) { v = o[n](v, settle(resolve, reject, v.done, v.value)); }); }; };

function settle(resolve, reject, d, v) { Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject); }

function __makeTemplateObject(cooked, raw) {
    if (Object.defineProperty) { Object.defineProperty(cooked, "raw", { value: raw }); }
    else { cooked.raw = raw; }

    var result = {}
    if (mod && mod.esModule) return mod.exports; var result = Identity; var function __importStar(mod) {
        if (mod && mod.__esModule) return mod;
        var result = {};
        if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];

    function __importDefault(mod) {
        return (mod && mod.__esModule) ? mod : {
    }

    /**
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     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
     * https://angular.io/license
     */
    function noNg() {
        throw new Error('AngularJS v1.x is not loaded!');
    }

    var noNgElement = (function () { return noNg(); });

    noNgElement.cleanData = noNg;

    var angular = {
        bootstrap: noNg,
        module: noNg,
        element: noNgElement,
        injector: noNg,
        version: undefined,
        resumeBootstrap: noNg,
        getTestability: noNg
    };

    try {
        if (window.hasOwnProperty('angular')) {
            angular = window.angular;
        }
    }
    catch (_a) {
        // ignore in CJS mode.
    }

    /**
     * @deprecated Use `setAngularJSGlobal` instead.
     *
     * @publicApi
     */
    function setAngularLib(ng) {
        setAngularJSGlobal(ng);
    }

    /**
     * @deprecated Use `getAngularJSGlobal` instead.
     *
     * @publicApi
     */
    function getAngularLib() {
        return getAngularJSGlobal();
    }

    /**
     * Resets the AngularJS global.
     *
     * Used when AngularJS is loaded lazily, and not available on `window`.
     *
     * @publicApi
     */
    function setAngularJSGlobal(ng) {
        angular = ng;

    /**
     * A `PropertyBinding` represents a mapping between a property name
     * and an attribute name. It is parsed from a string of the form
     * "prop: attr"; or
     */
simply "propAndAttr" where the property and attribute have the same identifier.

```
PropertyBinding = /** @class */ (function () {
  function PropertyBinding(prop, attr) {
    this.prop = prop;
    this.attr = attr;
    this.parseBinding();
  }

  PropertyBinding.prototype.parseBinding = function () {
    this.bracketAttr = '\"+' + this.attr + '\"';
    this.parenAttr = '(' + this.attr + ')';
    this.bracketParenAttr = '(' + this.attr + ')';
    this.onAttr = 'on' + this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.bindAttr = 'bind' + this.attr;
    this.bindonAttr = 'bindon' + this.attr;
  }

  return PropertyBinding;
}());
```

```
/**
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 *
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 */
```

```
DIRECTIVE_PREFIX_REGEXP = /^x\[|data\]\:\-_/i;
DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;
function onError(e) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  }
  else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}
```

```
Deferred = /** @class */ (function () {
  function Deferred() {
    var _this = this;
    this.promise = new Promise(function (res, rej) {
      _this.resolve = res;
      _this.reject = rej;
    });
  }

  return Deferred;
}());
```

```
/**
 * @return Whether the passed-in component implements the subset of the `ControlValueAccessor` interface needed for AngularJS `ng-model` compatibility.
 */
function supportsNgModel(component) {
  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}
```

```
hookupNgModel(ngModel, component) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = function () { component.writeValue(ngModel.$viewValue); }
  }
```

```
return $injector.has(DOWNGRADED_MODULE_COUNT_KEY);?
Sinjector.get(DOWNGRADED_MODULE_COUNT_KEY): 0; })
```

```
switch (upgradeAppType) { case 1 /* Dynamic */: case 2 /* Static */: if (downgradedModule) {
  throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
      unexpectedly specified.\n" +
      'You should not specify a value for \'downgradedModule\', unless you are
downgrading more than one Angular module (via \'downgradeModule()\').\n" +
      'This application contains more than one downgraded Angular module, thus you
      need to +\n      'always specify \
      'When downgrading components and
      'Do not forget to downgrade an Angular module or include it in the AngularJS application?\n```

```
return Deferred; })
```

```
function Deferred() {
  var this = this;
  this.promise = new Promise(function (res, rej) {
    this.resolve = res;
    this.reject = rej;
  });
  return Deferred; })
```

```
function supportNgModel(component) {
  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}
```

```
hookupNgModel(ngModel, component) {
  if (ngModel && supportNgModel(component)) {
    ngModel.$render = function () { component.writeValue(ngModel.$viewValue); }
  }
```

```
return Deferred; })
```

```
return $injector.has(DOWNGRADED_MODULE_COUNT_KEY);?
Sinjector.get(DOWNGRADED_MODULE_COUNT_KEY): 0; })
```

```
switch (upgradeAppType) { case 1 /* Dynamic */: case 2 /* Static */: if (downgradedModule) {
  throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
      unexpectedly specified.\n" +
      'You should not specify a value for \
      'This application contains more than one downgraded Angular module, thus you
      need to +
      'always specify \
      'When downgrading components and
      'Do not forget to downgrade an Angular module or include it in the AngularJS application?\n```

```
return Deferred; })
```

```
function Deferred() {
  var this = this;
  this.promise = new Promise(function (res, rej) {
    this.resolve = res;
    this.reject = rej;
  });
  return Deferred; })
```

```
function supportNgModel(component) {
  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}
```

```
hookupNgModel(ngModel, component) {
  if (ngModel && supportNgModel(component)) {
    ngModel.$render = function () { component.writeValue(ngModel.$viewValue); }
  }
```
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
            if (typeof component.registerOnTouched === 'function') {
                component.registerOnTouched(ngModel.$setViewValue.bind(ngModel));
            }
            if (typeof component.registerOnTouched === 'function') {
                component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
            }
        }
    }
    /**
     * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
     */
    function strictEquals(val1, val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }

    /**
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     */
    var INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.$wrapCallback = wrapCallback;
        }
        DowngradeComponentAdapter.prototype.compileContents = function () {
            var _this = this;
            var compiledProjectableNodes = [];
            var projectableNodes = this.groupProjectableNodes();
            var linkFns = projectableNodes.map(function (nodes) { return
                _this.$compile(nodes);
            });
            this.element.empty();
            linkFns.forEach(function (linkFn) {
                linkFn(this.scope, function (clone) {
                    compiledProjectableNodes.push(clone);
                    this.element.append(clone);
                });
            });
            return compiledProjectableNodes;
        };
        DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
            var providers = [{ provide: $SCOPE, useValue: this.componentScope }];
            var childInjector = core.Injector.create({
                providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'
            });
            this.componentRef =
                this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.changeDetector = this.componentRef.changeDetectorRef;
            var testability = this.componentRef.injector.get(core.Testability, null);
            if (testability) {
                this.componentRef.injector.get(core.TestabilityRegistry).
                    registerApplication(this.componentRef.location.nativeElement, testability);
            }
            var this = this;
            hookupNgModel(this.ngModel, this.component);
        };
        DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
            var _this = this;
            // testability hook is commonly added during component bootstrap in
            // packages/core/src/application_ref.bootstrap()
            // in downgraded application, component creation will take place here as well as adding the
            // testability hook.
            var testability = this.componentRef.injector.get(core.Testability, null);
            if (testability) {
                this.componentRef.injector.get(core.TestabilityRegistry).
                    registerApplication(this.componentRef.location.nativeElement, testability);
            }
            hookupNgModel(this.ngModel, this.component);
        };
        DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
            var _this = this;
            if (propagateDigest !== void 0) {
                propagateDigest = true;
            }
            var attrs = this.attrs;
            var inputs = this.componentFactory.inputs || [];
            var _loop_1 = function (i) {
                var input =
                    new PropertyBinding(inputs[i].propName, inputs[i].templateName);
                var expr = null;
                if (attrs.hasOwnProperty(input.attr)) {
                    var observeFn_1 = (function (prop) {
                        var
                            prevValue = INITIAL_VALUE;
                            return function (currValue) {
                                // Initially, both
                                // `$observe()` and `$watch()` will call this function.
                                if (!strictEquals(prevValue, currValue)) {
                                    prevValue = currValue;
                                }
                            };
                        })(input.prop);
                        attrs.$observe(input.attr, observeFn_1);
                        // Use `$watch()` (in addition to `$observe()`) in order to
                        // for `$ngOnChanges()` in order to initialize the input in time
                        // for `$ngOnChanges()`.
                        var unwatch_1 = this.componentScope.$watch(function () {
                            return function (prop, prevValue, currValue) {
                                prevValue =
                                    currValue;
                            };
                        }, this.updateInput(prop, prevValue, currValue));
                        var unwatch_1 = null;
                        observeFn_1(attrs[input.attr]);
                    });
                }
                _loop_1(i)
            });
        };
    })();

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        expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
            var watchFn = (function (prop) {
                return function (currValue, prevValue) {
                    return _this.updateInput(prop, currValue, prevValue);
                }; })(input.prop);
            _this.componentScope.$watch(expr, watchFn);
            var _this_1 = this;
            // Invoke `ngOnChanges()` and Change Detection (when necessary)
            var detectChanges = function () {
                return _this.changeDetector.detectChanges();
            }; var prototype = this.componentFactory.componentType.prototype;
            this.implementsOnChanges = !!(prototype &
            prototype.ngOnChanges); var this_1.componentScope.$watch(function () {
                return _thisInputChangeCount; }, this.wrapCallback(function () { if (_this.implementsOnChanges) {
                var inputChanges = _this.inputChanges;
                _this.inputChanges = {};
                _this.component.ngOnChanges(inputChanges);
            }}));
            // If not opted out of propagating digests, invoke change detection when inputs change.
            var propagateDigest = !(!this.implementsOnChanges &
            !this.componentFactory.componentType.prototype.$watch);
            if (propagateDigest) {
                var unwatch_2 = this.componentScope.$watch(function () { return _thisInputChangeCount; }, this.wrapCallback(function () {
                    _this.viewChangeDetector.markForCheck();
                    // If not opted out of propagating digests, invoke change detection on every digest
                    if (!propagateDigest) {
                        detectChanges();
                    }
                }));
                // If necessary, attach the view so that it will be dirty-checked.
                // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
                if (manuallyAttachView || !propagateDigest) {
                    var appRef = _this.parentInjector.get(core.ApplicationRef);
                    appRef.attachView(_this.componentRef.hostView);
                }
            }
        };
        DowngradeComponentAdapter.prototype.setupOutputs = function () {
            var inputs = this.componentFactory.outputs || [];
            for (var j = 0; j < inputs.length; j++) {
                var output = new PropertyBinding(inputs[j].propName, inputs[j].templateName);
                var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
                var bracketParenAttr = "[(" + output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8) + ")]";
                // order below is important - first update bindings then evaluate expressions
                if (attrs.hasOwnProperty(bindonAttr)) {
                    this.subscribeToOutput(output, expr, true);
                }
                if (attrs.hasOwnProperty(bracketParenAttr)) {
                    this.subscribeToOutput(output, expr, true);
                }
                if (attrs.hasOwnProperty(output.onAttr)) {
                    this.subscribeToOutput(output, expr, true);
                }
                if (attrs.hasOwnProperty(output.parenAttr)) {
                    this.subscribeToOutput(output, expr, true);
                }
            }
        };
        DowngradeComponentAdapter.prototype.registerCleanup = function () {
            var this_1 = this;
            var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
            var destroyComponentRef = this.wrapCallback(function () { return _this.destroyComponentRef; });
            var destroyComponentRef = this.wrapCallback(function () { return _this.destroyComponentRef; });
            var destroy = false;
            this.element.on('$destroy', function () { return _this.destroyComponentRef.$destroy(); });
            this.componentScope.$on('$destroy', function () { if (_destroyed) {
                destroy = true;
            }});
testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);

destroyComponentRef();
}

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

var ngContentSelectors = this.componentFactory.ngContentSelectors;

return groupNodesBySelector(ngContentSelectors, this.element[0].nativeElement);

return BlueDowngradeComponentAdapter;  

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */

function groupNodesBySelector(ngContentSelectors, nodes) {
  var projectableNodes = [];
  var wildcardNgContentIndex;
  for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
    var projectableNodes[i] = [];
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
      var node = nodes[j];
      var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
      if (ngContentIndex !== -1) {
        wildcardNgContentIndex = i;
      } else if (matchesSelector(node, '*')) {
        wildcardNgContentIndex = i;
      }
      ngContentIndices.push(i);
      ngContentIndices.sort();
      if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
      }
      return ngContentIndices.length ? ngContentIndices[0] : null;
    }
  }
}

function findMatchingNgContentIndex(node, ngContentSelectors) {
  var ngContentIndices = [];
  var wildcardNgContentIndex = -1;
  for (var i = 0; i < ngContentSelectors.length; i++) {
    var selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else if (matchesSelector(node, selector)) {
      ngContentIndices.push(i);
    }
  }
  ngContentIndices.sort();
  return wildcardNgContentIndex !== -1 ? ngContentIndices[0] : null;
}

matchesSelector = function (el, selector) {
  if (!_matches) {
    var elProto = Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
      elProto.mozMatchesSelector || elProto.msMatchesSelector ||
      elProto.oMatchesSelector || elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

/**
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 */

function isThenable(obj) {
  return !!obj && isFunction(obj.then);
}

/**
 * Synchronous, promise-like object.
 */

var SyncPromise = /** @class */ (function () {
  function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
  }
  SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    var resolve = function (idx, value) {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length)
        aggrPromise.resolve(results);
    };
    valuesOrPromises.forEach(function (p, idx) {
      if (isThenable(p)) {
        p.then(function (v) { return resolve(idx, v); });
      } else {
        resolve(idx, p);
      }
    });
    return aggrPromise;
  };
  SyncPromise.prototype.resolve = function (value) {
    if (this.resolved)
      return this.value;
    this.value = value;
    this.resolved = true;
    // Run the queued callbacks.
    this.callbacks.forEach(function (callback) { return callback(value); });
    this.callbacks.length = 0;
    SyncPromise.prototype.then = function (callback) {
      if (this.resolved)
        return callback(this.value);
      else {
        this.callbacks.push(callback);
      }
    };
    return SyncPromise;  

};

/* * A helper function that allows an Angular component to be used from AngularJS.
 */

/* * Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT
 */

* * * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for "downgrading" an Angular component.
 */

* * * @usageNotes

* * *

*/

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Examples

- Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

- We must create an AngularJS directive that will make this Angular component available inside AngularJS templates.

- The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the "downgraded" component.

- For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

- @param info contains information about the Component that is being downgraded.

- `component`: Type<any>:
  - The type of the Component that will be downgraded.
  - `downgradedModuleName?`:
    - The name of the downgraded module (if any) that the component belongs to, as returned by a call to `getDowngradedModule()`.

- If there is no parent component (thus no `parentInjector`), we will use the module injector when looking for an injectable and then switch to the module injector.

- Notes:
  - There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant).
  - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be the same tree as the `NgModule` that declares this downgraded component.
  - `finalParentInjector` is used for all other injection purposes.
  - (Note that Angular knows to only traverse the component-tree part of that injector.)

- There are basically three cases:
  - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded

  - `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.

- There are basically three cases:
  - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded

  - `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.

- Whether to perform `@link ChangeDetectorRef#detectChanges` on the component on every `[$digest]` (https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, change detection will still be performed when any of the component's inputs changes.

- `propagateDigest?: boolean`:
  - Whether to perform `@link ChangeDetectorRef#detectChanges` on the component on every `[$digest]` (https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).

- `isNgUpgradeLite`:
  - `isNgUpgradeLite` is true when using `UpgradeModule`.

- `getDowngradedModuleCount($injector) > 1`:
  - If more than one module needs to be downgraded, special handling is needed wrt injectors.

- `core.NgZone.isInAngularZone()`:
  - When downgrading multiple modules, special handling is needed for those that are run inside the Angular zone.

- `dirty-checked`:
  - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.

- `isNgUpgradeLite` and `getDowngradedModuleCount($injector) > 1`:

  - Return `false` if a callback to Angular APIs (e.g. change detection) is run inside the Angular zone.

  - If more than one module needs to be downgraded, special handling is needed wrt injectors.

- `force it back in`:
  - This option is only necessary when using `upgradeModule()` to downgrade more than one Angular module.

- `propagateDigest`:
  - Whether to perform `@link ChangeDetectorRef#detectChanges` on the component on every `[$digest]` (https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, change detection will still be performed when any of the component's inputs changes.

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- `dirty-checked`:
  - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
// `finalParentInjector`
// - If there is a parent component (and thus a `parentInjector`) and we are sure that it
//   belongs to the same `NgModule` as this downgraded component (e.g., because there is
//   one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and
//   `finalParentInjector`)
// - If there is a parent component, but it may belong to a different
//   `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded
//   component's declaring `NgModule`'s injector as `finalModuleInjector`.
// Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't need to
// bootstrap again).
// Note 2: It is possible that (while there are multiple downgraded modules) this
downgraded component and its parent component both belong to the same `NgModule`.

In that case, we could have used the `parentInjector` as both `finalModuleInjector` and
`finalParentInjector`, but (for simplicity) we aren't treating this case as if they belong to different
`NgModule`'s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor
and trying to resolve `ComponentFactoryResolver` from either one will return
the same instance.

// If there is a parent component, use its injector as parent
injector.
// If this is a "top-level" Angular component, use the module injector.

var finalParentInjector = parentInjector || moduleInjector;  
if (finalParentInjector)
  // If this is a "top-level" Angular component or the parent component may belong to another
  // different `NgModule`, use the module injector for module-specific dependencies.
  var finalModuleInjector = moduleInjector || parentInjector;

if (finalModuleInjector)
  var doDowngrade = function (injector, moduleInjector) {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this injector belongs to.
= function (injector) {
    // Store the real injector on the element.
    this.element.data(this.injectorKey, injector);
    // Release the element to prevent memory leaks.
    this.element = null;
    // Resolve the promise.
    _super.prototype.resolve.call(this, injector);
}));

return ParentInjectorPromise;

/**
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation
 * This helper function returns a factory function that provides access to the Angular service identified by the 'token' parameter.
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 * found in the LICENSE file at https://angular.io/license
 */

function downgradeInjectable(token, downgradedModule) {
    if (downgradedModule === void 0) { downgradedModule = ''; }
    var factory = function ($injector) {
        var injectorKey = '' + INJECTOR_KEY + downgradedModule;
        var injectableName = isFunction(token) ? getTypeName(token) : String(token);

        var attemptedAction = "instantiating injectable '" + injectableName + "'";

        validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
        var injector = $injector.get(injectorKey);
        return injector.get(token);
    };
    factory['$inject'] = [$INJECTOR];

    return factory;
}

/**
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation
 * This helper function returns a factory function that provides access to the Angular service identified by the 'token' parameter.
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

// Constants
var REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;
// Classes
var UpgradeHelper = /** @class */ (function () {
    function UpgradeHelper(injector, name, elementRef, directive) {
        this.injector = injector;
        this.name = name;
        this.element = elementRef.nativeElement;
        this.directive = directive;

        this.$injector = injector.get('$injector');
        this.$compile = injector.get('$compile');
        this.$controller = injector.get('$controller');
        this.$element = element.nativeElement;

        this.$injector.get('$controller').UpgradeHelper = function () {
            return new UpgradeHelper(injector, name, elementRef, directive);
        };
        this.$compile = function (directive) {
            return new UpgradeHelper(injector, name, elementRef, directive);
        };

        this.$element = this.$compile(this.directive);
        this.directive = function () {
            return new UpgradeHelper(injector, name, elementRef, directive);
        };

        if (directives.length == 1) { throw new Error("Only support single directive definition for: " + name);
            var directive = directives[0];
            angularJS will transform...
'link: xyz' to 'compile: () => xyz'. So we can only tell there was a
\nuser-defined `compile` if there is no
\nlink. In other cases, we will just ignore `compile`.\n
if (directive.compile && !directive.link)\n
notSupported(name, 'compile');\n
if (directive.replace)\n
notSupported(name, 'replace');\n
if (directive.terminal)\n
notSupported(name, 'terminal');\n
return directive;\n\nUpgradeHelper.getTemplate = function (Sinjector, directive, fetchRemoteTemplate, $element) {\n    if (fetchRemoteTemplate !== void 0) { fetchRemoteTemplate = false; }\n    if (directive.template != undefined)\n        var StemplateCache_1 = Sinjector.get(STEMPLATE_CACHE);\n    else if (directive.templateUrl) {\n        var url_1 = getOrCall(directive.templateUrl, $element);\n        if (template !== undefined) {\n            return getOrCall(directive.templateUrl, $element);\n        }\n    }\n    else if (directive.replace)\n        notSupported(name, 'replace');\n    if (directive.terminal)\n        notSupported(name, 'terminal');\n    return directive;\n};\n\nUpgradeHelper.prototype.buildController = function (controllerType, $scope) {\n    // TODO: Document that we do not pre-assign bindings on the controller instance.\n    \n    // Quoted properties below so that this code can be optimized with Closure Compiler.\n    var locals = { '$scope': $scope, '$element': this.$element };\n    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);\n    this.$element.data(controllerKey(this.directive.name), controller);\n    return controller;\n};\n\nUpgradeHelper.prototype.compileTemplate = function (template) {\n    if (template === undefined) {\n        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);\n    }\n    return this.compileHtml(template);\n};\n\nUpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {\n    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n        controllerInstance.$onDestroy();\n    }\n    $scope.$destroy();\n    // Clean the jQuery/jqLite data on the component+child elements.\n    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element\n    // (this.element).\n    element.cleanData([this.element]);\n    element.cleanData(this.element.querySelectorAll('*'));
};\n\nUpgradeHelper.prototype.prepareTransclusion = function () {\n    var _this = this;\n    var transclude = this.directive.transclude;\n    var var_contentNodes = this.extractChildNodes();\n    var attachChildrenFn = function (scope, cloneAttachFn) {\n        // Since AngularJS v1.5.8, `cloneAttachFn` will\n        try to destroy the transclusion scope if\n        // "Stemplate" is empty. Since the transcluded content comes from\n        Angular, not AngularJS,\n        // there will be no transclusion scope here.\n        // Provide a dummy \n        // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.\n        \n        scope = scope || { $destroy: function () { return undefined; } };\n        return cloneAttachFn($template, scope);\n    }\n    varTemplate = contentChildNodes;\n    if (transclude) {\n        var slotMap_1 = Object.create(null);\n        var filledSlots_1 = Object.create(null);\n        if (typeof transclude === 'object') {\n            $template = [];\n            var slotMap_1 = Object.create(null);\n            var optional = selector.charAt(0) === '?';\n            selector = optional ? selector.substring(1) : selector;\n            slotMap_1[selector] = fileName;\n            slots_1[fileName] = null; // "null":

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Defined but not yet filled.

// Add the matching elements into their slot.

contentChildNodes.forEach(function (node) { var slotName = directiveNormalize(node.nodeName.toLowerCase());

if (slotName) {

var _this = this;

if (!name) {

requiredControllersMap_1[key] = _this.resolveRequire(require[key]);

} else {

requiredControllers = requiredControllersMap_1[key];

Object.keys(requiredControllersMap_1).forEach(function (key) {

controllerInstance[key] = requiredControllersMap_1[key];

});

// Attach `$$slots` to default slot transclude fn.

attachChildrenFn.$$slots = slots_1;

// AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular

// removes all text content after the first interpolation and updates it later, after

// evaluating the expressions. This would result in AngularJS failing to recognize text

// nodes that start with an interpolation as transcluded content and use the fallback

// content instead.

// To avoid this issue, we add a

// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-

// joiner)

// to empty text nodes (which can only be a result of Angular removing their initial content).

// NOTE: Transcluded text content that starts with whitespace followed by an interpolation

// will still fail to be detected by AngularJS v1.6+

$template.forEach(function (node) {

if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {

node.nodeValue = '\u200C';

}.

// Removes all text content after the first interpolation and updates it later, after

// evaluating the expressions. This would result in AngularJS failing to recognize text

// nodes that start with an interpolation as transcluded content and use the fallback

// content instead.

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// NOTE: Transcluded text content that starts with whitespace followed by an interpolation

// will still fail to be detected by AngularJS v1.6+

$template.forEach(function (node) {

if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {

node.nodeValue = '\u200C';

}
if (!value && !isOptional) {
                    throw new Error("Unable to find required '" + require + "' in upgraded directive '" + this.name + '"."");
                }
                return value;
            }
            else {
                throw new Error("Unrecognized 'require' syntax on upgraded directive '" + this.name + '"."");
            }
        }
    return UpgradeHelper;
}
    function getOrCall(property) {
        var args = [];
        for (var _i = 1; _i < arguments.length; _i++) {
            args[_i - 1] = arguments[_i];
        }
        return isFunction(property) ? property.apply(void 0, __spread(args)) : property;
    }
    // NOTE: Only works for 'typeof T !== 'object'.
    function isMap(value) {
        return value && !Array.isArray(value) && typeof value === 'object';
    }
    function notSupported(name, feature) {
        throw new Error("Upgraded directive '" + name + '" contains unsupported feature: '" + feature + '"."");
    }

    /**
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     *
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
     */
    var CAMEL_CASE = /([A-Z])/g;
    var INITIAL_VALUE$1 = {
        __UNINITIALIZED__: true
    };
    var NOT_SUPPORTED = 'NOT_SUPPORTED';
    var UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {
        function UpgradeNg1ComponentAdapterBuilder(name) {
            this.name = name;
            this.inputs = [];
            this.inputsRename = [];
            this.outputs = [];
            this.outputsRename = [];
            this.propertyOutputs = [];
            this.checkProperties = [];
            this.propertyMap = {};
            this.directive = null;
            var selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });
            var self = this;
            // Note: There is a bug in TS 2.4 that prevents us from
            // inlining this into @Directive
            // TODO(tbosch): find or file a bug against TypeScript for this.
            var directive = { selector: selector, inputs: this.inputsRename, outputs: this.outputsRename };
            var MyClass = /** @class */ (function (_super) {
                __extends(MyClass, _super);
                function MyClass(scope, injector, elementRef) {
                    var _this = this;
                    _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) || this;
                    return _this;
                }
                MyClass = __decorate([ 
                    core.Directive(__assign({ jit: true }, directive)),
                    __param(0, core.Inject($SCOPE)),
                    __metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])
                ], MyClass);
                return MyClass;
            }(UpgradeNg1ComponentAdapter));
            this.type = MyClass;
        }
    UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
        var _this = this;
        var btcIsObject = typeof this.directive.bindToController === 'object';
        if (btcIsObject && Object.keys(this.directive.scope).length) {
            throw new Error("Binding definitions on scope and controller at the same time are not supported."");
        }
        var context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;
        if (typeof context == 'object') {
            Object.keys(context).forEach(function (propName) {
                var definition = context[propName];
                var bindingType = definition.charAt(0);
                var bindingOptions = definition.charAt(1);
                var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
                var inputName = 'input_' + attrName;
                var inputNameRename = inputName + ': ' + attrName;
                var outputName = 'output_' + attrName;
                var outputNameRename = outputName + ': ' + attrName;
                var outputNameRenameChange = outputNameRename + '+' + attrName;
                switch (bindingType) {
                    case 'input':
                        _this.inputs.push(inputName);
                        break;
                    case 'output':
                        _this.outputs.push(outputName);
                        break;
                    case '@':
                        _this.propertyMap[inputName] = propName;
                        _this.propertyMap[inputName_rename] = propName;
                        break;
                    case '&':
                        _this.outputs.push(outputNameRename);
                        break;
                    case '='.$
                        _this.propertyMap[inputName] = propName;
                        _this.propertyMap[inputName_rename] = propName;
                        break;
                    case '!='
                        _this.inputs.push(inputName);
                        break;
                    case '!='
                        _this.outputs.push(outputName);
                        break;
                }
            });
            var context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;
            if (typeof context == 'object') {
                Object.keys(context).forEach(function (propName) {
                    var definition = context[propName];
                    var bindingType = definition.charAt(0);
                    var bindingOptions = definition.charAt(1);
                    var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
                    var inputName = 'input_' + attrName;
                    var outputName = 'output_' + attrName;
                    var outputNameRename = outputName + attrName;
                    var outputNameRenameChange = outputNameRename + attrName;
                    switch (bindingType) {
                        case '@':
                            _this.inputs.push(inputName);
                            break;
                        case '&':
                            _this.outputs.push(outputName);
                            break;
                    }
                });
            }
        }
    });
```javascript
/**
 * Upgrade ng1 components into Angular.
 */
UpgradeNg1ComponentAdapterBuilder.resolve
= function (exportedComponents, $injector) {
    var json = JSON.stringify(context);
    throw new Error("Unexpected mapping '" + bindingType + "' in '" + _this.name + '" directive.');
}

UpgradeNg1ComponentAdapter = /** @class */ (function () {
    function UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {
        this.helper = helper;
        this.template = template;
        this.inputs = inputs;
        this.outputs = outputs;
        this.propOuts = propOuts;
        this.checkProperties = checkProperties;
        this.propertyMap = propertyMap;
        this.controllerInstance = null;
        this.destinationObj = null;
        this.checkLastValues = [];
        this.$element = null;
        this.directive = helper.directive;
        this.element = helper.element;
        this.$element = helper.$element;
        this.componentScope = scope.$new(!!this.directive.scope);
        var controllerType = this.directive.controller;
        if (this.directive.bindToController && controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
            this.destinationObj = this.controllerInstance;
        } else {
            this.destinationObj = this.componentScope;
        }
        for (var i = 0; i < inputs.length; i++) {
            this[inputs[i]] = null;
        }
        for (var j = 0; j < outputs.length; j++) {
            var emitter = this[outputs[j]] = new core.EventEmitter();
            if (this.propOuts.indexOf(outputs[j]) === -1) {
                this.setComponentProperty(outputs[j], (function (emitter) {
                    return function (value) { return emitter.emit(value); }
                })(emitter));
            }
        }
        for (var k = 0; k < propOuts.length; k++) {
            this.checkLastValues.push(INITIAL_VALUE$1);
        }
    }

    UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {
        // Collect contents, insert and compile template
        var attachChildNodes = this.helper.prepareTransclusion();
        var linkFn = this.helper.compileTemplate(this.template);
        // Instantiate controller (if not already done so)
        var controllerType = this.directive.controller;
        var bindToController = this.directive.bindToController;
        if (controllerType && !bindToController) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        }
        // Require other controllers
        var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
        // Hook: $onInit
        if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
            this.controllerInstance.$onInit();
        }
        // Linking
        var link = this.directive.link;
        var preLink = typeof link == 'object' && link.pre;
        var postLink = typeof link == 'object' ? link.post : link;
        var attrs = NOT_SUPPORTED;
        var transcludeFn = NOT_SUPPORTED;
        if (preLink) {
            preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
        if (postLink) {
            postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        // Hook: $postLink
        if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
            this.controllerInstance.$postLink();
        }
    };

    UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
        var _this = this;
        var ng1Changes = {};
        Object.keys(changes).forEach(function (name) {
            var change = changes[name];
            _this.setComponentProperty(name, change.currentValue);
            ng1Changes[_this.propertyMap[name]] = change;
        });
        if (isFunction(this.destinationObj.$onChanges)) {
            this.destinationObj.$onChanges(ng1Changes);
        }
    };

    return UpgradeNg1ComponentAdapter;
}();
```

UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () { var _this = this; var destinationObj = this.destinationObj; var lastValues = this.checkLastValues; var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;
    checkProperties.forEach(function (propName, i) { var value = destinationObj[propName]; var last = lastValues[i];
        if (strictEquals(last, value)) { var eventEmitter = _this[propOuts[i]]; eventEmitter.emit(lastValues[i] = value); } });
    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) { this.controllerInstance.$doCheck(); }
}
UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () { this.helper.onDestroy(this.componentScope, this.controllerInstance); }
UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) { this.destinationObj[this.propertyMap[name]] = value; }

/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 */
upgradeCount = 0;
/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a
 * single application.
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from
 * AngularJS component directive
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of
 * AngularJS directive from Angular component.
 * (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * coexisting in a
 * single application.
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains
 * what is happening at the lowest level.
 * There are two independent frameworks running in a single
 * application, each framework treats the other as a black box.
 * Each DOM element on the page is owned exactly by one framework. Whichever framework
 * instantiated the element is the owner. Each framework only updates/interacts with its own
 * DOM elements and ignores others.
 * AngularJS directives always execute inside AngularJS framework codebase regardless of
 * where they are instantiated.
 * Angular components always execute inside Angular framework codebase regardless of
 * where they are instantiated.
 * An AngularJS component can be upgraded to an Angular component. This creates an
 * Angular directive, which bootstraps the AngularJS component directive in that location.
 * An Angular
 * component can be downgraded to an AngularJS component directive. This creates an
 * AngularJS directive, which bootstraps the Angular component in that location.
 * Whenever an adapter component is instantiated
 * the host element is owned by the framework doing the instantiation. The other framework then instantiates and
 * owns the view for that
 * component. This implies that component bindings will always follow the
 * semantics of the
 * instantiation framework. The syntax is always that of Angular syntax.
 * AngularJS is always bootstrapped first and owns the bottom most view.
 * The new application is running in Angular
 * zone, and therefore it no longer needs calls to
 * `$apply()`.
 * When returning from
 * the handler, AngularJS executes `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
```typescript
@publicApi
    */
    var UpgradeAdapter = /** @class */ (function () {
        function UpgradeAdapter(ng2AppModule, compilerOptions) {
            this.ng2AppModule = ng2AppModule;
            this.compilerOptions = compilerOptions;
            this.idPrefix = "NG2_UPGRADE_" + upgradeCount++ + "_";
            this.downgradedComponents = [];
            this.moduleRef = null;
            if (!ng2AppModule) {
                throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app. ');
            }
            this.upgradedProviders = [];
            this ng1ComponentsToBeUpgraded = {};
        }

        UpgradeAdapter.prototype.downgradeNg2Component = function (component) {
            this.downgradedComponents.push(component);
            return downgradeComponent({ component: component });
        };
    });
```
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- `priority`: ignored.
- `replace`: not supported.
- `restrict`: must be set to 'E'.
- `scope`: supported.
- `template`: supported.
- `template-url`: supported.
- `terminal`: ignored.
- `transclude`: supported.
- `template-url`: supported.
- `terminal`: ignored.
- `transclude`: supported.

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() =>
  MyNg2Module));
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '='},
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

module.directive('ng1', function() {
  return {
    scope: {salutation: '='},
    template: '<greet salutation="Hello" [name]="world">text</greet>'
  };
});

@Component({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" 
[title]="world">text</greet>
  '}
})
class Ng2Component {}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})

class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello World! - text");
});
```

UpgradeAdapter.prototype.upgradeNg1Component = function (name) {
  if (this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {
    return this.ng1ComponentsToBeUpgraded[name].type;
  } else {
    return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name)).type;
  }
};

UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {
  var _this = this;
  windowNgMock = window['angular'].mock;
  if (!windowNgMock || !windowNgMock.module) {
    throw new Error('Failed to find `angular.mock.module`.');
  }
  this.declareNg1Module(modules);
  windowNgMock.module(this.ng1Module.name);
  var upgrade = new UpgradeAdapterRef();
  var _this = this;
  var windowNgMock = window['angular'].mock;
  if (!windowNgMock || !windowNgMock.module) {
    throw new Error('Failed to find `angular.mock.module`.');
  }
  this.declareNg1Module(modules);
  windowNgMock.module(this.ng1Module.name);
  var upgrade = new UpgradeAdapterRef();
  this.ng2BootstrapDeferred.promise.then(function (ngInjector) { upgrade._bootstrapDone(_this.moduleRef, ngInjector); }, onError);

UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {
  var _this = this;
  var windowNgMock = window['angular'].mock;
  if (!windowNgMock || !windowNgMock.module) {
    throw new Error('Failed to find `angular.mock.module`.');
  }
};
```
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {
    var _this = this;
    this.declareNg1Module(modules);
    var upgrade = new UpgradeAdapterRef();
    // Make sure
    resumeBootstrap() only exists if the current bootstrap is deferred
    var windowAngular = window['angular'];
    windowAngular.resumeBootstrap = undefined;
    this.ngZone.run(function () {
        var ng1BootstrapPromise = new
        Promise(function (resolve) {
            if (windowAngular.resumeBootstrap) {
                var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
                windowAngular.resumeBootstrap =
                function () {
                    windowAngular.resumeBootstrap = originalResumeBootstrap_1;
                    var r = windowAngular.resumeBootstrap.apply(this, arguments);
                    resolve();
                    return r;
                }; };
        };
    });
    Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {
        var _b = __read(_a, 1), ng1Injector = _b[0];
        element(element$1).data(controllerKey(INJECTOR_KEY),
        _this.moduleRef.injector);
        _this.moduleRef.injector.get(core.NgZone).run(function () {
            UpgradeAdapter._bootstrapDone(_this.moduleRef, ng1Injector); });
    }, onError);
    return upgrade;
};
platformBrowserDynamic().
        this.ngZone = new core.NgZone({
            enableLongStackTrace: Zone.hasOwnProperty("LongStackTraceZoneSpec") });
        ngModule.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)
        .factory(INJECTOR_KEY, function () { return this.moduleRef.injector.get(core.Injector); })
        .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])
        .constant(NG_ZONE_KEY, this.ngZone)
        .factory(COMPILE_KEY, function () { return this.moduleRef.injector.get(core.Compiler); })
        .config(['$provide', 'Sinjector', '
            function (provide, ng1Injector) {
                provide.decorator(SROOT_SCOPE, ['$delegate', '
                    function (rootScopeDelegate) {
                        // Capture the root apply so that we can delay first
                        call to $apply until we
                        rootScopePrototype = rootScopeDelegate.constructor.prototype;
                        if (rootScopePrototype.$apply)
                            rootScopePrototype.$apply = function (exp) { return
                                delayApplyExps.push(exp); };
                            else throw new Error('Failed to find \'$apply\' on \'$rootScope\'!');
                        original$applyFn = rootScopePrototype.$apply;
                    };
                ])
            }
        ]);
        ng1Module.run(['$injector', '$rootScope', '
            UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector)
            .then(function () {
                var ngModule = {
                    providers: [{ provide: $INJECTOR, useFactory: function () { return ng1Injector; } },
                                { provide: $COMPILE, useFactory: function () { return
                                    ng1Injector.get($COMPILE); } },
                                _this.upgradedProviders
                                ],
                    imports: [core.resolveForwardRef(_this.ng2AppModule)],
                    entryComponents: _this.downgradedComponents
                };  
                // At this point we have ng1 injector and we have
                DynamicNgUpgradeModule = /** @class */ (function () {
                    function DynamicNgUpgradeModule() {
                    }
                    DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { };
                }());
                ng1Module.run(['$injector', '
                    return DynamicNgUpgradeModule;
                ])
                .bootstrapModule(DynamicNgUpgradeModule, _this.compilerOptions, {
                    ngZone: _this.ngZone
                }).then(function (ref) {
                    _this.moduleRef = ref;
                    _this.ngZone.run(function () {
                        if (rootScopePrototype) {
                            rootScopePrototype.$apply = original$applyFn; // restore original $apply
                        }
                        while (delayApplyExps.length) {
                            rootScope.$apply(delayApplyExps.shift());
                        }
                        rootScopePrototype = null;  
                    };
                });
            });
        };
        return DynamicNgUpgradeModule();
    }
);
No license file was found, but licenses were detected in source scan.

"version":3,"file":"upgrade-static.umd.js","sources":[]}
require?: DirectiveRequireProperty;

export interface IAAttributes {
  $observe(attr: attr, fn: (v: string) => void): void;
}

export interface ITTranscludeFunction {
  // If the scope is provided, then the cloneAttachFn must be as well.
  scope?: IScope;
  cloneAttachFn?: ICloneAttachFunction;
  IAugmentedJQuery;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: any;
}

export interface IDirectiveTranscludeProperty {
  $transclude?: Function;
  $transclude?: TemplateUrl;
}

export interface IDirectiveRequireProperty {
  require?: DirectiveRequireProperty;
  templateUrl?: string;
  transclude?: TemplateUrl;
}

export interface IEvent { // The event interface is a bit special
  triggerHandler: Function;
  type: string;
  extraParameters: any;
}

export interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope: IScope): void;
}

export interface IDirectiveTranscludeProperty {
  $transclude?: string;
}

export interface IDirectiveRequireProperty {
  require?: string;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string): string;
}

export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
}

export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
}

export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}

export interface IProvider { $get: IInjectable; }

export interface IProvideService {
  provider(token: NgIToken, provider: IProvider): IProvider;
  factory(token: NgIToken, factory: IInjectable): IProvider;
  service(token: NgIToken, factory: Injectable): IProvider;
}

export interface IAugmentedJQuery { // The AugmentedJQuery interface
  on?: (name: string, fn: () => void) => void;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  removeData?: () => void;
}

export interface IAugmentedJQuery { // The AugmentedJQuery interface
  on?: (name: string, fn: () => void) => void;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  removeData?: () => void;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string): string;
}

export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
}

export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
}

export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}

export interface IProvider { $get: IInjectable; }

export interface IProvideService {
  provider(token: NgIToken, provider: IProvider): IProvider;
  factory(token: NgIToken, factory: Injectable): IProvider;
  service(token: NgIToken, factory: Injectable): IProvider;
}

export interface IAugmentedJQuery { // The AugmentedJQuery interface
  on?: (name: string, fn: () => void) => void;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  removeData?: () => void;
}

export interface IAugmentedJQuery { // The AugmentedJQuery interface
  on?: (name: string, fn: () => void) => void;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  removeData?: () => void;
}
function __generator(thisArg, body) {
    var r = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[0]; }, try: [1, 0, 0], ops: [0] }, f, y, t, g;
    for (var i; i < arguments.length; i++)
        ar = ar.concat(__read(arguments[i]));
    if (y) try {
        if (t[0] & 2) 
            switch (op[0]) {
                case 7: op = _.ops.pop(); _.trys.pop(); continue;
                default:
                    if (t[0] & 1) throw t[1]; return t[0];
                case 4:
                    t = op[2] & 0 || t[0] ? op[2] : v = new __await(v);
                    continue;
                case 3:
                    if (t[0] & 5) throw t[1]; return v;
                case 5:
                    t = op[0] & 7 ? t[0] : op[0] = { t: op[0], n: +t[2] - 1, v: e, q: 0, f: f ? f(op[0]) : function() { throw new TypeError("Generator is already executing."); } }, y = (t = t[0] & 2 ? y._t() : y) ? op[0] & 6 ? op[0] : { f: op[0] & 0 || 
                      t[0] ? v = __await(op[0](y, thisArg)), m = 0 : t[0] ? 
                        v = __await(op[0](thisArg)), m = 0 : m = 0; 
                    } : m ? m.value : 
                        t[0] ? v = __await(op[0](thisArg)), m = m ? m.value : m : l && !l[0] ? v : 
                            l[0] ? (l[1] = l[0][1], l[0] = l[0][2]) : l.shift();
                break;
            }
        if (t[0]) exec(t[0], op); if (t[1]) 
            return v = __await(op[0](y, thisArg)), m = 0; 
        if (t[2])
            switch (op[0]) {
                case 7: op = _.ops.pop(); _.trys.pop(); continue;
                default:
                    if (t[0] & 1) throw t[1]; return t[0];
            };
    } finally {
        if (f) throw new TypeError("Generator is already executing.");
    }
    return v;
};

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```javascript
if (mod && mod.__esModule) return mod;
var result = {};
if (mod != null) for (var k in mod) if
```

```javascript
result[k] = mod[k];
```

```javascript
return result;
```

```
export function __importStar(mod) {
    __makeTemplateObject(cooked, raw);
    return cooked;
}

function __makeTemplateObject(cooked, raw) {
    if (Object.defineProperty) { Object.defineProperty(cooked, "raw", {
        enumerable: false,
        value: raw }); } else {
    cooked.raw = raw;
    return cooked;
}
```

```
var result = {};
if (mod != null) for (var k in mod) if
```
Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];

result.default = mod.default; return result;

export function _importDefault(mod) {

  return (mod && mod._esModule) ? mod : {
    default: mod },
  },/*@license */ Copyright Google Inc. All Rights Reserved.

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  * found in the LICENSE file at https://angular.io/license

// compile

// @license

/**
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 * found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

/**
 * A `PropertyBinding` represents a mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr" where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr!: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr!: string;
  // TODO(issue/24571): remove '!'.
  parenAttr!: string;
  // TODO(issue/24571): remove '!'.
  onAttr!: string;
  // TODO(issue/24571): remove '!'.
  bindAttr!: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr!: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[${(this.attr)}\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on\${capitalAttr}`;
    this.bindAttr = `bind\${capitalAttr}`;
    this.bindonAttr = `bindon\${capitalAttr}`;
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[-\-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
    .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_: letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n') [0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

UpgradeAppType.None;

export function isFunction(value: any): value is Function {
  return

value === 'function';
  } || !export function validateInjectionKey($injector: IInjectorService, downgradedModule: string, injectionKey: string, attemptedAction: string): void {
    const upgradeAppType = getUpgradeAppType($injector);
    const downgradedModuleCount = getDowngradedModuleCount($injector);
    if (downgradedModuleCount > 2) {
      throw new Error('Error while ' + attemptedAction + ': more than one Angular module (via
    downgradedModule(') + injectionKey + ')');
    }
  }

  const downgradeAppType = UpgradeAppType.Dynamic;
  const downgradeAppType = UpgradeAppType.Dynamic;
  case UpgradeAppType.Static:
    if (!!$injector.has(injectionKey)) {
      throw new Error('Error while ' + attemptedAction + ': ' + injectionKey + ' unexpectedly specified. You should not specify a value for
    downgradeAppType, unless you are downgrading more than one Angular module (via
    downgradeModule('))');
    break;
  case UpgradeAppType.Lite:
    if ((downgradedModule && (downgradedModuleCount >= 1)) ||
        !($injector.has(injectionKey))) {
      throw new Error('Error while ' + attemptedAction + ': ' + injectionKey + ' not specified. This application contains more than one connected Angular module, thus you need to always specify
    downgradeAppType when downgrading components and injectables.');
    break;
  default:
    throw new Error('Error while ' + attemptedAction + ': Not a valid '@angular/upgrade' application. Did you forget to downgrade an Angular module or include it in the AngularJS application?');

  }
}

export class Deferred<R> {
  promise: Promise<R>;

  resolve!: (value?: R | PromiseLike<R>) => void;

  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  None,

  Dynamic,

  Static,

  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component (if it implements the needed subset of
 * the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
  component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(!component.writeValue

  return strictEquals(val1, val2) ||
      strictEquals(val1, undefined) &&
      strictEquals(val2, undefined);
}

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Inject, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;

  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;

  private component: any;

  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;

  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(

private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
private ngModel: INgModelController, private parentInjector: Injector,
private Sinjector: InjectorService, private Scompile: ICompileService,
private $parse: IParseService, private componentFactory: ComponentFactory<any>,
private wrapCallback: <T>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
}

compileContents(): Node[][] {
  const compiledProjectableNodes: Node[][] = [[], []];
  const projectableNodes: Node[][] = this.groupProjectableNodes();
  const linkFns = projectableNodes.map(nodes =>
    this.$compile(nodes));

  this.element.empty();

  linkFns.forEach(linkFn => {
    linkFn(this.scope,
      (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append(clone);
      });
  });

  return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]) {
  const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
  const childInjector = Injector.create(
    {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});

  this.componentRef = this.componentFactory.create(childInjector,
    projectableNodes, this.element[0]);
  this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
  this.changeDetector = this.componentRef.changeDetectorRef;
  this.component = this.componentRef.instance;

  // testability hook is commonly added during component bootstrap in
  // packages/core/src/application_ref.bootstrap() in
  // downgradeapplication, component creation will take place here as well as adding the
  // testability hook.
  const testability = this.componentRef.injector.get(Testability, null);
  if (testability) {
    this.componentRef.injector.get(TestabilityRegistry)
      .registerApplication(this.componentRef.location.nativeElement, testability);
  }

  hookupNgModel(this.ngModel, this.component);
}

hookupNgModel(this.ngModel, this.component) {
  this.$injector.
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap() in
    // downgradeapplication, component creation will take place here as well as adding the
    // testability hook.
    // const testability = this.componentRef.injector.get(Testability, null);
    // if (testability) {
    //   this.componentRef.injector.get(TestabilityRegistry)
    //     .registerApplication(this.componentRef.location.nativeElement, testability);
    // }
this.componentInstance.$watch(this.wrapCallback(detectChanges));
} // If necessary, attach the view so that it will be dirty-checked.
// (Allow time for the initial input values to be set and 'ngOnChanges()' to be called.)
if (manuallyAttachView || !propagateDigest) {
  let unwatch = Function(null = this.componentInstance.$watch(() => {
    unwatch = null;
} null const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
appRef.attachView(this.componentInstance.hostView);
})

const attrs = this.attrs;
const outputs = this.componentInstanceFactory.outputs || [];
for (let j = 0; j < outputs.length; j++) {
  const output = new PropertyBinding(outputs[j], propName, outputs[j].templateName);
  const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
  const bracketParenAttr = `[${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}]`;
  // order below is important - first update bindings then evaluate expressions
  if (attrs.hasOwnProperty(bindonAttr)) {
    this.subscribeToOutput(output, attrs[bindonAttr], true);
  }
  if (attrs.hasOwnProperty(bracketParenAttr)) {
    this.subscribeToOutput(output, attrs[bracketParenAttr], true);
  }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr]);
  }
  if (attrs.hasOwnProperty(output.parenAttr)) {
    this.subscribeToOutput(output, attrs[output.parenAttr]);
  }
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
                       (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentInstance.location.nativeElement);
      destroyComponentRef();
    }
  });
}

getInjector(): Injector { return this.componentRef.injector; }

updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentInstanceFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex = null;
  let ngContentSelectors.length; i < ii; ++i) {
    projectableNodes[i] = [];
    for (let j = 0, jj = nodes.length; j < jj; ++j) {
      const node = nodes[j];
      const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
      if (ngContentIndex != null) {
        projectableNodes[ngContentIndex].push(node);
      } else {
        if (matchesSelector(node, string)): number[] {
          let wildcardNgContentIndex: number[] = number[]
          for (let i = 0; i < ngContentIndices.length; i++) {
            const ngContentSelectors = ngContentSelectors[i];
            if (ngContentIndex) {
              wildcardNgContentIndex = i;
            } else {
              if (matchesSelector(element, selector)) {
                ngContentIndices.push();
              } else {
                ngContentIndices.sort();
              }
            }
          }
        }
      }
    }
  }

  if (matchesSelector(element, selector)) {
    ngContentIndices.push();
  } else {
    ngContentIndices.sort();
  }
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number[] {
  let wildcardNgContentIndex: number[] = number[]
  for (let i = 0; i < ngContentIndices.length; i++) {
    const ngContentSelectors = ngContentSelectors[i];
    if (selector === '**) {
      wildcardNgContentIndex = i;
    } else {
      ngContentIndices.push(wildcardNgContentIndex); return ngContentIndices.length; ngContentIndices[0]:
    null;
  }
}

function matchesSelector(node: any, selector: string) {
  if (selector) {
    return true;
  } else {
    return false;
  }
}

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Node.ELEMENT_NODE ? _matches.call(el, selector) : false;

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 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = []; // Run the queued callbacks.

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>(true);

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    thiscallbacks.forEach((callback) => callback(value));

    // Perform change detection when the value changes.
    if (this.callbacks.push(callback)) {
      void ({}); // Do nothing.
    } else {
      if (this.callbacks = callback) {
        void ({}); // Do nothing.
      }
    }
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }
}

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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.
 *
 * {@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
 *
 * We must create an AngularJS directive that wraps the `ng2Heroes` component.
 *
 * {@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
}) { // param info contains information about the Component that is being downgraded:
  return (new DowngradeComponentAdapter(info.component, info.downgradedModule, info.propagateDigest));
}

// $digest(https://docs.angularjs.org/api/ng/type/$rootScope.Scope.$digest). It set to `false`. Then change detection will still be performed when any of the component's inputs changes.
/* (Default: true)*/
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; change detection
}) on the component on every $digest(event)
boolean; /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
): any /* angular.IInjectable */ {
  const directiveFactory:
      IAnnotatedFunction = function(
          $compile: ICompileService, $injector: IInjectorService, $parse:
      IParseService): IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For
    example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-
    checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    //   Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `NgSdigest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
    // force it back in).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const
target: typeof (cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;

    // When downgrading multiple modules, special handling is needed with injectors.
    const hasMultipleDowngradedModules =
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    return {
      restrict: 'E',
      terminal:
true,
      return {
        [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
        link: (scope: IScope, element:
      IAugmentedJQuery, attrs: IAttributes, required: any[])
        => {
          // We might have to compile the contents
          // asynchronously, because this might have been
          // been compiled.
          const ngModel: INgModelController =
required[1].parentInjector; Injector|Thenable<Injector>|undefined = required[0];
let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ranAsync = false;
    if
      (!parentInjector || hasMultipleDowngradedModules) {
        const lazyModuleModifier = lazyModuleRefKey as LazyModuleRef;
        moduleInjector =
        lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
      }
    // If there is a
    parent component, use its injector as parent injector.
    // If this is a "top-level" Angular component, use the module injector.
    const finalParentInjector = parentInjector || moduleInjector !;
    // There are basically three cases:
    // - If there is no parent component (thus no
    //    `parentInjector`), we bootstrap the downgraded
    // - `NgModule` and use its injector as both
    //    `finalModuleInjector` and `finalParentInjector`.
    //    - If there is a parent component (and thus a
    //      `parentInjector`) and we are sure that it's
    //      belongs to the same `NgModule` as this downgraded component
    (e.g. because there is only
    // one downgraded module, we use that `parentInjector` as both
    // `finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component, but it may belong
to a different `NgModule`, then we use
    // the `parentInjector` as `finalParentInjector` and this downgraded component's
    // declaring `NgModule`'s injector as `finalModuleInjector`.
    // Note 1: If the
    // `NgModule` is already bootstrapped, we just get its injector (we don't need
    // bootstrap again).
    // Note 2: It is possible that (while there are multiple downgraded modules) this
    // downgraded component and its parent component both belong to the same
    // `NgModule`.
    // In that case, we could have used the
    // `parentInjector` as both
    // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`s. That doesn't
    // really affect anything, since `parentInjector` has `moduleInjector` as ancestor
    // and trying to resolve
    // `ComponentFactoryResolver` from either one will return the
    // same instance.}
    if
      // If there is a parent component, use its injector as parent injector.
      if
        // This is a `top-level` Angular component, use the module injector.
        const finalParentInjector = parentInjector || moduleInjector !;
        // If this is a `top-
```

downgradeInjectable = angular2 downgradeInjectable

downgradeInjectable = angular2 downgradeInjectable

downgradeInjectable = angular2 downgradeInjectable

downgradeInjectable = angular2 downgradeInjectable

```

that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular. For example, if an Angular module uses a downgraded module (by a call to `downgradeModule()`), it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular.

```typescript
/**
 * @param {InjectionToken} token an `InjectionToken` that identifies a service provided from Angular.
 * @param {string} downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned by a call to `downgradeModule()`.
 * It is the module, whose injector will be used for instantiating the injectable.
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module).
 * @returns {Function} a [factory function](https://docs.angularjs.org/guide/di) that can be used to register an AngularJS module.
 * @publicApi
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function ($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
```

```typescript
/**
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 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 *
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
```

```typescript
/**
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 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it.
// Then we $get the ng1 injector from the module injector, which triggers the provider to read the stored injector and release the reference to it.
let tempInjectorRef: IInjectorService|null = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;
  return injectorFactory(i =>
    return (i.get('RootScopeFactory'));
  )
}
```

```typescript
/**
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 */

import {Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    } else {
      throw new Error('Trying to get the AngularJS injector before it being set.');
    }

    return (this.modInjector.get(token));
  }
}
```
this.modInjector.get(token, notFoundValue);\n}]);"/**
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 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {IINJECTOR, $INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPDATE_APP_TYPE_KEY, UPDATE_MODULE_NAME} from './util';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a downgraded Component needs to be instantiated.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that
 * allow loading/bootstraping the Angular part of a hybrid application lazily and not having to
 * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards.
 *
 * `downgradeModule()` requires either an `NgModuleFactory` or a function: -
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 *   using `platformBrowser`'s `bootstrapModuleFactory`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an
 *   `NgModuleRef`. The function is called with an array of extra `Providers` that are expected to be available from the returned
 *   `NgModuleRef`'s `Injector`.
 *
 * `downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to
 * declare a dependency in your main AngularJS module.
 *
 * For more details on how to use `downgradeModule()` see *Upgrade for Performance*(guide/upgrade-performance).
 *
 * For a more detailed discussion of the differences and their implications, see
 * [Upgrading for Performance](guide/upgrade-performance).
 * This means that applications using `UpgradeModule` will run change detection
 * more frequently in order to ensure that both frameworks are properly notified about possible changes.
 * This will inevitably result in more change detection runs than necessary.
 * on the other side, does not need to tie the two change detection systems as tightly, restricting the explicit change
detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component
* change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the
developer to manually notify each framework as needed.
 * For a more detailed discussion of the differences and their implications, see
 * [Upgrading for Performance](guide/upgrade-performance).
 * You can manually trigger a change detection run in AngularJS using
 * `scope.$apply()` when changes are detected in the Angular part of the application.
 * This means that applications using `UpgradeModule` will run change detection
 * more frequently in order to ensure that both frameworks are properly notified about possible changes.
 * This will inevitably result in more change detection runs than necessary.
 * on the other side, does not need to tie the two change detection systems as tightly, restricting the explicit change
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developer to manually notify each framework as needed. This means that applications using `UpgradeModule` will run change detection
* more frequently in order to ensure that both frameworks are properly notified about possible changes.
### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules - Each downgraded module's injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

If you want some injectables to be shared among all downgraded modules, you can provide them as:

- StaticProvider's, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).
- When using `@link PlatformRef#bootstrapModule` or `@link PlatformRef#bootstrapModuleFactory` to bootstrap the downgraded modules, each one is considered a `\$root` module. As a consequence, a new instance will be created for every injectable provided in `\$root` (via `@link Injectable#providedIn`). If this is not your intention, you can have a shared module (that will act as the `\$root` module) and create all downgraded modules using that module's injector.

```typescript
export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
  (extraProviders: StaticProvider[]): Promise<NgModuleRef<T>>): string {
  // ... (remaining code)
}
```

**@publicApi**

## Open Source Used in MSX Cloud UTD Service Pack 3.9.0

Open Source Used In MSX Cloud UTD Service Pack 3.9.0
directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.$element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive ||
        UpgradeHelper.getDirective(this.$injector, name);
}

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
        throw new Error('Only support single directve definition for: ${name}');
    }

    const directive = directives[0];

    // AngularJS will transform 'link: xyz' to 'compile: () => xyz'. So we can only tell there was an
    // user-defined 'compile' if there is no 'link'. In other cases, we will just ignore 'compile'.
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
}

static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string|Promise<string> {
    if (directive.template !== undefined) {
        return getOrCall<string>(directive.template, $element);
    } else if (directive templateUrl) {
        const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
        const url = getOrCall<string>(directive templateUrl, $element);
        const template = $templateCache.get(url);

        if (template !== undefined) {
            return template;
        } else if (!fetchRemoteTemplate) {
            throw new Error('loading directive templates asynchronously is not supported');
        }

        return new Promise((resolve, reject) => {
            const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
            $httpBackend('GET', url, null, (status: number, response: string) => {
                if (status === 200) {
                    resolve($templateCache.put(url, response));
                } else {
                    reject(`GET component template from '${url}' returned '${status}: ${response}'`);
                }
            });
        });
    } else {
        throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
}

buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {
        '$scope': $scope, '$element': this.$element
    };
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data!(controllerKey(this.directive.name!), controller);

    this.$element = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;

    return controller;
}

compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
}

destroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }
    $scope.$destroy();

    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));

    let $template = contentChildNodes;

    if (transclude) {
        const slots = Object.create(null);
        const filledSlots = Object.create(null);

        Object.keys(transclude).forEach(slotName => {
            let selector = transclude[slotName];
            const optional = selector.charAt(0) === '?';
            selector = optional ? selector.substring(1) : selector;

            const $template = $(selector);

            if ($template.length > 0) {
                filledSlots[slotName] = true;
            }
        });

        const clone = angularElement(document.importNode(this.element, false));

        if (clone) {
            const cloneElement = angularElement(clone);
            const cloneAttributes = angularElement(clone.querySelectorAll('*')).forEach(attribute => {
                const attributeValue = angularElement(attribute).textContent;
                angularElement(this.element).querySelector(attribute).textContent = attributeValue;
            });

            const slots = Object.keys(filledSlots);

            angularElement(filledSlots).forEach(slot => {
                angularElement(slot).appendChild(clone[slots.indexOf(slot)]);
            });
        }
    }

    this.onDestroy($scope, IScope, controllerInstance: any) {
        angularElement.cleanData([this.element]);
    }
}
slotName; slots[slotName] = null; // 'null': Defined but not yet filled
  filledSlots[slotName] = optional; // Consider optional slots as filled
contentChildNodes.forEach(node => {
  const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
  if (slotName) {
    filledSlots[slotName] = true;
    slots[slotName] = slots[slotName] || [];
    slots[slotName].push(node);
  } else {
    $template.push(node);
  }
});

Object.keys(filledSlots).forEach(slotName => {
  if (!filledSlots[slotName]) {
    throw new Error('Required transclusion slot $' + slotName + ' on directive: ' + this.name);
  }
});

Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
  const nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach!(nodes, scope);
  };
});

// Check for required slots that were not filled.
Object.keys(filledSlots).forEach(slotName => {
  if (!filledSlots[slotName]) {
    throw new Error('Required transclusion slot ' + slotName + ' on directive: ' + this.name);
  }
});

Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
  const nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach!(nodes, scope);
  };
});

// Add the matching elements into their slot.
contentChildNodes.forEach(node => {
  const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
  if (slotName) {
    filledSlots[slotName] = true;
    slots[slotName] = slots[slotName] || [];
    slots[slotName].push(node);
  } else {
    $template.push(node);
  }
});

// Check for required slots that were not filled.
Object.keys(filledSlots).forEach(slotName => {
  if (!filledSlots[slotName]) {
    throw new Error('Required transclusion slot '$ + slotName + ' on directive: ' + this.name);
  }
});

Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
  const nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach!(nodes, scope);
  };
});
isMap<T>({value: SingleOrListOrMap<T>}): value is {[key: string]: T};

getSupportedFeature(): {name: string, feature: string}[]

notSupported(name: string, feature: string): never

twoWayBoundProperties: string[]

expressionBoundProperties: string[]
ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate();
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType) {
      this.controllerInstance = this.helper.buildController(controllerType,
        this.$componentScope);
    } else if (bindToController) {
      throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
    }

    // Set up outputs
    this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
    this.bindOutputs();
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

    // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }

    // Hook: $doCheck
    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      const callDoCheck = () => this.controllerInstance.$doCheck();
      this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
      callDoCheck();
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    if (preLink) {
      preLink(this.$componentScope, this.$element, {}, requiredControllers, transcludeFn);
    }

    // Require other controllers
    this.helper.onDestroy(this.$componentScope, this.controllerInstance);

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

    // ngOnChanges
    if (!this.bindingDestination) {
      this.pendingChanges = changes;
    } else {
      this.forwardChanges(changes);
    }

    // Two way binding
    const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    const twoWayBoundOutputMap = this.bindings.propertyToOutputMap;
    const eventEmitter = (this as any)[propName].emit(newValue);
    eventEmitter.emit(newValue);
    twoWayBoundLastValues[idx] = newValue;

    // Initialize two way bound properties
    if (isFunction(this.unregisterDoCheckWatcher)) {
      this.unregisterDoCheckWatcher();
    }

    // Initialize outputs
    this.helper.onDestroy(this.$componentScope, this.controllerInstance);
    private initializeBindings(directive: IDirective) {
      const btcIsObject = typeof directive.bindToController === 'object';
      if (btcIsObject && Object.keys(directive.scope).length) {
        throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
      }

      const context = btcIsObject ? directive.bindToController : directive.scope;
      const bindings = new Bindings();
      for (let propName in context) {
        const definition = context[propName];
        const bindingType = definition.charAt(0);

        switch (bindingType) {
          case '@':
          case '<':
            break;
          case '=':
            bindings.expressionBoundProperties.push(propName);
            bindings.propertyToOutputMap[propName] = propName;
            break;
        }
      }

      // We don't need to do anything special. They will be handled by
      // upgraded component facade and the change propagation will be handled by
      // upgradeOnChanges() instead.
      break;
    }

    // Switch
    switch (bindingType) {
      case '@':
      case '<':
        // We don't need to do anything special. They will be handled by
        // upgraded component facade and the change propagation will be handled by
        // upgradeOnChanges() instead.
        break;
      case '=':
        bindings.expressionBoundProperties.push(propName);
        bindings.propertyToOutputMap[propName] = propName;
        break;
      case '&':
        bindings.expressionBoundProperties.push(propName);
        bindings.propertyToOutputMap[propName] = propName;
        break;
    }

    // Throw new Error
    throw new Error(`Unexcepted mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
  }

return bindings;
}

private initializeOutputs() {
  // Initialize the outputs for `=` and `&` bindings
}
```typescript
this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
  .forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    (this as any)[outputName] = new EventEmitter();
  });

  private bindOutputs() {
    // Bind `&` bindings to the corresponding outputs
    this.bindings.expressionBoundProperties.forEach(propName => {
      const outputName = this.bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];
      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) {
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);
    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../src/common/src/constant';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../src/common/src/util';
import {NgAdapterInjector} from './util';
import {UpgradeModule} from './angular1';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * @usageNotes
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
 * See also the `@link UpgradeModule#examples examples` below.
 *
 * ### Mental Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own framework. The AngularJS framework codebase is not aware of the DOM elements and ignores other frameworks. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated. An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.
 * An AngularJS component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.
 */
```
semantics of the instantiation framework. 2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use camelCase, while AngularJS templates must use kebab-case. 3. However the template binding syntax will always use the Angular style, e.g. square brackets (`[...`]) for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

- Importing this `NgModule` will add providers for the core
- [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.
- * Bootstrap
- The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM. For the hybrid upgrade app:
- It also contains properties to access the `@link UpgradeModule#injector` root injector, and
- [AngularJS Sinjector](https://docs.angularjs.org/api/auto/service/Sinjector).
- * Examples
- Import the `UpgradeModule` into your top level AngularJS module:
- Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module onto an element in the DOM. For the hybrid upgrade app:

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

- Core AngularJS services
  - Importing this `NgModule` will add providers for the core AngularJS services
- * Bootstrap
- The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM. For the hybrid upgrade app:

### Examples

- Import the `UpgradeModule` into your top level `NgModule`.
- * Bootstrap
- The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM. For the hybrid upgrade app:

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from '@angular/upgrade';
import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';

@NgModule({
  declarations: [
    AppComponent,
  ],
  imports: [
    BrowserModule,
    UpgradeModule
  ],
  bootstrap: [
    AppComponent,
  ],
})
export class AppModule {
  constructor(upgradeModule: UpgradeModule) {
    upgradeModule.setupModule(UpgradeModule, { providers: [TestabilityService] });
  }
}
```

---

```typescript
interface Testability {
  isStable(): boolean;
}
```

```typescript
const ng2Testability: Testability = injector.get(Testability);
const ng2Stable = ng2Testability.isStable();
```
function whenStable() {
    const testabilityDelegate = newWhenStable(testabilityDelegate); // Wrap the testability service so that testability is called outside NgZone.
    return testabilityDelegate;
}

$provide.decorator($INTERVAL, 
  (intervalDelegate: IIntervalService) => {
    // Wrap the $interval service so that setInterval is called outside NgZone, but
    // the callback is still invoked within it. This is so that $interval
    // won't block stability, which preserves
    // behavior from AngularJS.
    let wrappedInterval = fn => {
      // Run callback in the next VM turn - $interval calls $rootScope.$apply, and running
      // the callback in NgZone will
      // cause a 'Digest already in progress' error if it's in the
      // same vm turn.
      return intervalDelegate((...args) => {
        // Run callback in the next VM turn - $interval calls $rootScope.$apply, and running
        // the callback in NgZone will
        // cause a 'Digest already in progress' error if it's in the
        // same vm turn.
        return $rootScope.$evalAsync();
      }, delay, count, invokeApply, ...pass);
    };
    wrappedInterval.cancel = intervalDelegate.cancel;
    return wrappedInterval;
});

$injector.get($INJECTOR)._runOutsideAngular((controllerKey(INJECTOR_KEY), this.injector):void => {
  // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
  // We need to do this in the next tick so that we don't prevent the bootstrap
  // stabilizing
  setTimeout(() => {
    const $rootScope = $injector.get('$rootScope');
    const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
      if ($rootScope.$$phase) {
        if (isDevMode()) {
          console.warn(
            'A digest was triggered while one
            was already in progress. This may mean that something is triggering digests outside the Angular zone.');
        }
        return $rootScope.$evalAsync();
      }
      return $rootScope.$digest();
    });
    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
  }, 0);
});

const upgradeModule = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

// Make sure resumeBootstrap() only exists if the current
bootstrapping = windowAngular = (window as any)[`angular`];
windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => {
  const windowAngular = (window as any)[`angular`];
  windowAngular.resumeBootstrap = function() {
    const windowAngular = (window as any)[`angular`];
  };

  @license
  * Copyright Google Inc. All Rights Reserved.
  * Use of this source code is governed by an MIT-style license that can be
  * found in the LICENSE file at https://angular.io/license
  */

  // This file only re-exports
  // items to appear in the public api. Keep it that way.
  /*# sourceMappingURL=upgrade_module.js.map */

  export {getAngularJSGlobal, getAngularLib, setAngularSGlobal, setAngularLib} from
  `./src/common/src/angular1`;export {downgradeComponent} from
  `./src/common/src/downgrade_component`;export {downgradeInjectable} from
  `./src/common/src/downgrade_injectable`;export {VERSION} from `./src/common/src/version`;export
  {downgradeModule} from `./src/downgrade_module`;export {UpgradeComponent} from
  `./src/upgrade_component`;export {UpgradeModule} from `./src/upgrade_module`;'}
production index.ts when it rewrites private symbol
// names.\n\nexport * from './public_api';

/**
 * Generated
 */

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e, compileFactory as ɵangular_packages_upgrade_static_static_c, injectorFactory as ɵangular_packages_upgrade_static_static_a, parseFactory as ɵangular_packages_upgrade_static_static_d, rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from

"/src/angular1_providers/";

"names": ["Injector", "ChangeDetectorRef", "Testability", "TestabilityRegistry", "Applicati
onRef", "SimpleChange", "NgZone", "ComponentFactoryResolver", "Version", "NOT_FOUND_CHECK_ONLY_EL
EMENT_INJECTOR", "platformBrowser", "angularModule", "angularElement", "INITIAL_VALUE", "looseIdentica
t", "EventEmitter", "element", "isDevMode", "NgModule"], "mappings"}
CACb,OAAO,KAAI,CAAC,MAAM,CAAC,iBAAiB,CAAC;wCACnC,OAAO,gBAAgB,yBAAC;gDAAC,cAAc;q
DAAd,UAAc,EAAd,qBAAc,EAAd,IAAc;oDAAd,yBAAc;;;;;;gDAKrC,UAAU,CAAC,cAAQ,KAAI,CAAC,MAA
M,CAAC,GAAG,CAAC,cAAM,OAAA,EAAE,wBAAI,IAAI,KAAC,CAAC,CAAC,EAAE,CAAC,CAAC;6CAC3
D,EAAE,KAAK,EAAE,KAAK,EAAE,WAAW,GAAK,IAAI,GAAE;qCACxC,CAAC,CAAC;iCACJ,CAAC;gCAE
L,eAAuB,CAAC,QAAQ,CAAC,GAAG,gBAAgB,CAAC,MAAM,CAAC;gCAC7D,OAAO,eAAe,CAAC;6BACxB
;yBACF,CAAC,CAAC;qBACJ;iBACF;aACF,CAAC;iBAED,GAAG,CAAC;gBACH,SAAS;gBACT,UAAC,SAA2
B;oBAC1B,KAAI,CAAC,SAAS,GAAG,SAAS,CAAC;;oBAG3B,kBAAkB,CAAC,SAAS,CAAC,CAAC;oBAC9B,
KAAI,CAAC,QAAQ,CAAC,GAAG,CAAC,SAAS,CAAC,CAAC;;oBAG7BU,OAAc,CAACI,SAAO,CAAC,CAA
C,IAAM,CAAC,aAAa,CAAC,YAAY,CAAC,EAAE,KAAI,CAAC,QAAQ,CAAC,CAAC;;;;oBAK3E,UAAU,CAA
C;wBACT,IAAM,UAAU,GAAG,SAAS,CAAC,GAAG,CAAC,YAAY,CAAC,CAAC;wBAC/C,IAAM,YAAY,GA
AG,KAAI,CAAC,MAAM,CAAC,gBAAgB,CAAC,SAAS,CAAC;4BAC1D,IAAI,UAAU,CAAC,OAAO,EAAE;gC
ACtB,IAAIC,cAAS,EAAE,EAAE;oCACf,OAAO,CAAC,IAAI,CACR,wIAAwI,CAAC,CAAC;iCAC/I;gCAED,O
AAO,UAAU,CAAC,UAAU,EAAE,CAAC;6BAChC;4BAED,OAAO,UAAU,CAAC,OAAO,EAAE,CAAC;yBAC7
B,CAAC,CAAC;wBACH,UAAU,CAAC,GAAG,CAAC,UAAU,EAAE,cAAQ,YAAY,CAAC,WAAW,EAAE,CAA
C,EAAE,CAAC,CAAC;qBACnE,EAAE,CAAC,CAAC,CAAC;iBACP;aACF,CAAC,CAAC;YAEX,IAAM,aAAa,
GAAGN,OAAa,CAAC,mBAAmB,EAAE,CAAC,gBAAgB,CAAC,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC,C
AAC;;YAG7F,IAAM,aAAa,GAAI,MAAc,CAAC,SAAS,CAAC,CAAC;YACjD,aAAa,CAAC,eAAe,GAAG,SAAS
,CAAC;;YAG1C,IAAI,CAAC,MAAM,CAAC,GAAG,CAAC,cAAQ,SAAS,CAACK,SAAO,EAAE,CAAC,aAAa,
CAAC,IAAI,CAAC,EAAE,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC;;YAG7E,IAAI,aAAa,CAAC,eAAe,EAA
E;gBACjC,IAAM,yBAAuB,GAAe,aAAa,CAAC,eAAe,CAAC;gBAC1E,IAAM,QAAM,GAAG,IAAI,CAAC,MAA
M,CAAC;gBAC3B,aAAa,CAAC,eAAe,GAAG;oBAAA,iBAI/B;oBAHC,IAAI,IAAI,GAAG,SAAS,CAAC;oBACr
B,aAAa,CAAC,eAAe,GAAG,yBAAuB,CAAC;oBACxD,OAAO,QAAM,CAAC,GAAG,CAAC,cAAM,OAAA,aA
Aa,CAAC,eAAe,CAAC,KAAK,CAAC,KAAI,EAAE,IAAI,CAAC,GAAA,CAAC,CAAC;iBAC1E,CAAC;aACH;S
ACF;QApJU,aAAa;YADzBE,aAAQ,CAAC,EAAC,SAAS,EAAE,CAAC,iBAAiB,CAAC,EAAC,CAAC;6CAW3B
lB,aAAQ;gBAEHM,WAAM;WAZd,aAAa,CAqJzB;QAAD,oBAAC;KArJD;;ICjJA;;;;;;;AAQA,IASA,iFAAiF;;ICj
BjF;;;;;;OAMG;;ICNH;;OAEG;;;;;;;;;;;;;;;;;;;;;;;;;;"}
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgradestatic.umd.js.map
No license file was found, but licenses were detected in source scan.
{"version":3,"file":"upgrade-statictesting.umd.js","sources":["../../../../../external/npm/node_modules/tslib/tslib.es6.js","../../../../../../../packages/upgrade
/src/common/src/angular1.ts","../../../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../../../packages
/upgrade/static/testing/src/create_angular_testing_module.ts","../../../../../../../packages/upgrade/static/testing/src/creat
e_angularjs_testing_module.ts","../../../../../../../packages/upgrade/static/testing/public_api.ts","../../../../../../../packages
/upgrade/static/testing/index.ts","../../../../../../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":["/*!
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http://www.apache.org/licenses/LICENSE-2.0\r\n\r\nTHIS CODE IS PROVIDED ON AN *AS IS* BASIS,
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INCLUDING WITHOUT LIMITATION ANY IMPLIED\r\nWARRANTIES OR CONDITIONS OF TITLE,
FITNESS FOR A PARTICULAR PURPOSE,\r\nMERCHANTABLITY OR NON-INFRINGEMENT.\r\n\r\nSee
the Apache Version 2.0 License for specific language governing permissions\r\nand limitations under the
License.\r\n***************************************************************************** */\r\n/*
global Reflect, Promise */\r\n\r\nvar extendStatics = function(d, b) {\r\n extendStatics = Object.setPrototypeOf

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Open Source Used In MSX Cloud UTD Service Pack 3.9.0

```javascript
__spreadArrays() { 
    for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;
    for (var r[k] = a[j], return r; j < a.length; j++)
        for (var n = function(v) { return this; }(); i; a.push(n))
            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                    function(v) { return this; }([{ res(v, r) })
                        for (var i; i; a.push(n))
                            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                    function(v) { return this; }([{ res(v, r) })
                                        for (var i; i; a.push(n))
                                            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                                    function(v) { return this; }([{ res(v, r) })
                                                        for (var i; i; a.push(n))
                                                            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                                                    function(v) { return this; }([{ res(v, r) })
                                                                        for (var i; i; a.push(n))
                                                                            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                                                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                                                                    function(v) { return this; }([{ res(v, r) })
                                                                                                        for (var i; i; a.push(n))
                                                                                                            for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                                                                                for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                                                                                                                    function(v) { return this; }([{ res(v, r) })
                                                                                                                                            for (var i; i; a.push(n))
                                                                                                                                                for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                                                                                                                    for (var res(n, r) { try { step(g[n](v)); catch (e) { resolve(e); } }(); r.value instanceof
                                                                                                                                                        function(v) { return this; }([{ res(v, r) })
                                                                                                                                                            for (var i; i; a.push(n))
                                                                                                                                                                for (var (v) { return new Promise(resolve(a, b) { q.push(v, a, b) > 1 || resolve(v, a); }); }(); a.length) 
                                                                 AdamObject(cooked, raw) { 
                if (Object.defineProperty) { Object.defineProperty(cooked, raw, { value: raw }); } else { cooked.raw = raw; return cooked; };
            }
        }
    }
}
```
interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}

export interface IDirectiveCompileFn { (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost { pre?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn { (scope: IScope, instanceElement: IAugmentedJQuery, controller: any, transclude: ITranscludeFunction): void;
}

export interface IDirectivePrePostPost { post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn { (instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controllerAs?: IDirectivePrePostPost): void;
}

export interface IDirectiveLinkFn { (instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controllerAs?: IDirectivePrePostPost): void;
}

export interface IDirectivePrePostPost { post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn { (instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controllerAs?: IDirectivePrePostPost): void;
}

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}

export interface IDirectivePrePostPost { post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn { (instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controllerAs?: IDirectivePrePostPost): void;
}

export interface IDirectivePrePostPost { post?: IDirectiveLinkFn;
}
$async Validators: ([key: string]: Function);\n$changeListeners: Function[];\n$error: Object;\n$change: Object;\n$sntouched: boolean;\n$touched: boolean;\n$spristine: boolean;\n$sdirty: boolean;\n$svalid: boolean;\n$invalid: boolean;\n$name: string;\n$ngUnobtrusive: noNg(); never $throw new Error('AngularJS v1.x is not loaded!');\n$const noNgElement: typeof angular.element = (i) => noNg(i) as any;\n$noNgElement.cleanData = noNg;\n$unet angular: \n$bootstrap: (e: Element, modules: (string | Injectable[]), config?): IAngularBootstrapConfig => \nInjectorService;\nmodule: (prefix: string, dependencies?: string[]):\nIModule,\nelement: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery = angular\n$cleanData: (nodes: Node[] | NodeList) => (void);\ninjector: (modules: Array<{} | Injectable>, strictDi?: boolean) = InjectorService;\nversion: {major: number};\nresumeBootstrap: () => (void);\n$getTestabilityService\n= \n$bootstrap: noNg;\nmodule: noNg;\nelement: noNg;\nversion: undefined as any;\nresumeBootstrap: noNg;\ngetTestability: noNg;\nentry \nif \n(window.hasOwnProperty('angular')) {\nangular = (<any>window).angular;\n} catch \nif \n(window.hasOwnProperty('angular')) {\n  angular = (<any>window).angular;\n} catch

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';
export const $$TESTABILITY = '$$testability';
export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const Lazy_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const REQUIRE_INJECTOR_KEY = '$$UpgradeApp_TYPE_KEY';
export const REQUIRE_APP_TYPE_KEY = '$$UpgradeAppType';
export const REQUIRE_APP_NAME = '$$UpgradeModuleName';
export const REQUIRE_APP = '$$UpgradeApp';
export const REQUIRE_APP = '$$UpgradeApp';
export const $injectorFactory() {
  return $injector;
}
`createAngularTestingModule` is a helper function to use when unit testing Angular services that depend upon upgraded AngularJS
services. This function returns an `NgModule` decorated class that is configured to wire up
the AngularJS and AngularJS injectors without the need to actually bootstrap a hybrid application.

This makes it simpler and faster to unit test services.

### `createAngularTestingModule` arguments

- `angularJSModules`: a collection of the names of AngularJS modules to include in the configuration.
- `strictDi`: boolean

### `createAngularTestingModule` usage

```typescript
export function createAngularTestingModule(
    angularJSModules: string[],
    strictDi?: boolean): Type<any> {
    ...
}
```

### `createAngularTestingModule` description

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the
responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS
handlers of async events from Angular.

In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `\`titleCase\` as needed by the AngularJS `\`injector\`. The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
@param [strictDi] whether the AngularJS injector should have `strictDI` enabled.

### `createAngularJSTestingModule` arguments

- `angularJSModules`: a collection of the names of AngularJS modules to include in the configuration.
- `strictDi`: boolean

### `createAngularJSTestingModule` usage

```typescript
export function createAngularJSTestingModule(
    angularJSModules: string[],
    strictDi?: boolean): NgModule {
    ...
}
```

### `createAngularJSTestingModule` description

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
@param [strictDi] whether the AngularJS injector should have `strictDI` enabled.

### `createAngularJSTestingModule` description

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
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### `createAngularJSTestingModule` description

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

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Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
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### `createAngularJSTestingModule` description

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
@param [strictDi] whether the AngularJS injector should have `strictDI` enabled.
This helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information. The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
const angularModules: angular.Module[] = ...

const testingModule = createAngularJSTestingModule(angularModules);
```

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

```typescript
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', angularModules).constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static).factory(INJECTOR_KEY, (INJECTOR, ...
```

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```typescript
export {createAngularTestingModule} from './src/create_angular_testing_module';
export {createAngularJSTestingModule} from './src/create_angularjs_testing_module';
```
DhCC,aAAQ,CAAC,EAAC,SAAS,EAAE,CAAC,EAAC,EAAC,OOAO,EAAE,SAAS,EAAC,UAUA,EAAE,gBAAgB,EAAC,EAAC,EAAC,6CAE3DC,aAAQ,WADZ,OBAAoB,CAEhC;QAAD,2BAAC;KAFD;IAEC;IAED;:::;

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

export type Ng1Token = string;

export type Ng1Expression = string |
Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface within // `Sinject?: string[]`, which is not compatible with `Sinject?:
  // @types/angular` typings extend the global `Function` interface with
  // `$inject?: string[]`,
  // which is not compatible with `$inject?:
  // readonly string[]` (used in // latest versions).
  Sinject?: Function extends {[key: string]: T}[
  // In latest versions:
  T] | ([key: string]: T);}

export interface IModule {
  name: string;
  requires: (string|IInjectable[]) | null;
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(name: string, type: Injectable): IModule;
  run(a: Injectable): IModule;
  run(n: string): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[],
   transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {[key: string]: any};
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
}

export interface IProvider {
  $get: IInjectable;
}

export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  service(token: Ng1Token, type: Injectable): IProvider;
  value(token: Ng1Token, value: any): IProvider;
  constant(token: Ng1Token, value: any): void;
  decorator(token: Ng1Token, factory: Injectable): void;
}
interface IParseService {
  (expression: string): ICompiledExpression;
}
export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
}

export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number,
   withCredentials?: boolean): void;
}

export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
  assign?: (context: any, value: any) => any;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
    Promise<string>;
}

export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}

export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}

export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]):
    Promise<any>;
  cancel(promise: Promise<any>): boolean;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean):
    boolean;
  findModels(element: Element, expression: string, opt_exactMatch?: boolean):
    boolean;
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger?: string): void;
  $viewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {
    [key: string]: Function;
  };
  $asyncValidators: {
    [key: string]: Function;
  };
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>
    IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularLib` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
  angular.element = (e: Element | Document | IAugmentedJQuery) => angular.element(e);
  angular.$compile = (expression: string): ICompiledExpression => angular.$compile(expression);
  angular.$templateCache = (expression: string): ICompiledExpression => angular.$templateCache(expression);
  angular.$injector = (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);
  angular.$getTestability = (e: Element) => angular.$getTestability(e);
  angular.$$injector = *license*;
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  *license* Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const

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/**
 * A `PropertyBinding` represents a
 * mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `\[${(this.attr})\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}

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 *
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)\[:\-\-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-\-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return `$${name}Controller`;
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :

UpgradeAppType.None;
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :

UpgradeAppType.None;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :

UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService,
downgradedModule: string, injectionKey: string, attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
      break;
    case UpgradeAppType.None:
      throw new Error('Error while
You should not specify a value for `downgradedModule` unless you are downgrading more than one Angular module (via `downgradeModule()`). You should not specify `'downgradedModule'`, unless you are downgrading more than one Angular module, thus you need to always specify `downgradedModule` when downgrading components and injectables.

`Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified. You should not specify 'downgradedModule' unless you are downgrading more than one Angular module;`
appRef.attachView(this.componentRef.hostView);

setupOutputs() {
  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
    const bracketParenAttr = `$[output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)]`;
    if (order below is important)
      first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(output, attrs[bindonAttr], true);
      }
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true);
      }
      if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr]);
      }
      if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr]);
      }
  }
}

subscribeOutputs() {
  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
    const bracketParenAttr = `$[output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)]`;
    // order below is important
    first update bindings then evaluate expressions
    if (attrs.hasOwnProperty(bindonAttr)) {
      this.subscribeToOutput(output, attrs[bindonAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, attrs[bracketParenAttr], true);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, attrs[output.onAttr]);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, attrs[output.parenAttr]);
    }
  }
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression $\{expr\} is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
                       (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter $\{output.prop\} on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]):
  Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number;
    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      projectableNodes[i] = [];
      for (let j = 0, jj = nodes.length; j < jj; ++j) {
        const node = nodes[j];
        const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex != null) {
          projectableNodes[ngContentIndex].push(node);
        }
      }
    }

    return projectableNodes;
  }

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
  let wildcardNgContentIndex: number = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (matchesSelector(element, selector)) {
      wildcardNgContentIndex = i;
    } else {
      wildcardNgContentIndex = wildcardNgContentIndex < wildcardNgContentIndex ? wildcardNgContentIndex : wildcardNgContentIndex;
    }
  }

  return wildcardNgContentIndex;
}

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector || elProto.oMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

export interface Thenable<T> {
  then(callback: (value: T) => any): any;
}

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

Synchronous, promise-like object.
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[ ] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>(());
    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };
    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });
    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;
    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}

/**
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 * found in the LICENSE file at
 * https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that
 * allows an Angular component to be used from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function to be used for
 * registering an AngularJS wrapper directive for
 * an Angular component.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you
 * have an Angular component called `ng2Heroes` that needs
 * to be made available inside
 * AngularJS templates.
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
 *
 * We must create an AngularJS
 * [directive](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).
 * The `downgradeComponent()` function returns a factory function that
 * we can use to define the AngularJS directive that wraps the
 * Angular component inside
 * AngularJS templates.
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
 *
 * For more details and examples on
 * upgrading Angular components to AngularJS components please
 * visit the [Upgrade
 * guide](https://docs.angularjs.org/guide/upgrade#using-angular-components-from-angularjs-code).
 */

export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory: IAnnotatedFunction = function(
    // When using `downgradeModule()`, we need to handle certain things specially. For
example:

// We always need to attach the component view to the `ApplicationRef` for it to be
// dirty-
// checked.
// - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
// Angular zone.
// NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
// inside the Angular zone (except if explicitly escaped, in which case we shouldn't
// force it back in).
const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
const
wrapCallback: <T>(cb: () => T) => typeof cb =
    !isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

let ngZone; // When downgrading multiple modules, special handling is needed wrt injectors;
const hasMultipleDowngradedModules =
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

return {
  restrict: 'E',
  terminal:
      !!parentInjector || hasMultipleDowngradedModules;
  \n  const lazyModuleRefKey = '$[\{LAZY_MODULE_REF\}[$(downgradedModule)]';
  \n  const attemptedAction = 'instantiating component `$getTypeName(info.component)`' ;

  validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);

  const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
  const
moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

  // Notes:
  // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
  // the same instance, but that is irrelevant) ;
  // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
  //   be on the same tree as the `NgModule` that declares this downgraded component.
  // - `finalParentInjector` is used for all other injection purposes.

  // (Note that Angular knows to only traverse the component-tree part of that injector,
  // when looking for an injectable and then switch to the module injector.
  // There are basically three cases:
  // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
  //   `NgModule` and use its injector as both
  //   `finalModuleInjector` and `finalParentInjector`;
  // - If there is a parent component (and thus a `parentInjector`) and we are sure that it
  //   belongs to the same `NgModule` as this downgraded component (e.g. because there is only
  //   one downgraded module, we use that `parentInjector` as both
  //   `finalModuleInjector` and `finalParentInjector`;
  // - If there is a parent component, but it may belong to a different `NgModule`, then we
  //   use the `parentInjector` as `finalParentInjector` and this downgraded component
  //   ` NgModule`'s injector as `finalModuleInjector`;

  // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't
  // bootstrap again);

  // Note 2: It is possible that (while there are multiple downgraded modules) this
  // downgraded component and its parent component both belong to the same
  // NgModule.

  // In that case, we could have used the `parentInjector` as both
  // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are not
  // treating this case as if they belong to different `NgModule`s. That doesn't
  // really affect
  // anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve
  // `ComponentFactoryResolver` from either one will return the same instance.
  // If there is a parent component, use its injector as parent injector.

  // If this is a "top-level" Angular component, use the module injector.

  const finalParentInjector = parentInjector || moduleInjector !;

  // If there is a parent component that belongs to the same `NgModule` as this downgraded
  // Angular component or the parent component may belong to a different `NgModule`, use the
  // module injector for module-specific dependencies.

  // If there is a parent component that belongs to the same
  // `NgModule`, use its injector.

  const finalModuleInjector = moduleInjector || parentInjector !;

  doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`
    // this
    // component belongs to.
componentFactoryResolver: ComponentFactoryResolver =
moduleInjector.get(ComponentFactoryResolver);
const componentFactory: ComponentFactory<any> =
  moduleInjector.get(ComponentFactoryResolver).
const facade = new ParentInjectorPromise(element);

DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, $compile, $parse, componentFactory, wrapCallback);
const projectableNodes = facade.compileContents();
facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
facade.setupOutputs();
facade.registerCleanup();

injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
  // If this is run async, it is possible
  // that it is not run inside a
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

private injectorKey: string = controllerKey(INJECTOR_KEY);
constructor(private element: IAugmentedJQuery) {
  super();

  // Store the promise on the element.
  element.data !(this.injectorKey, this);

  // Release the element to prevent memory leaks.
  this.element = null !;

  // Resolve the promise.
  super.resolve(injector);
}

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* found in the LICENSE file at https://angular.io/license
*/

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an `NgModule`
 * that will be part of the upgrade application. For example, let's assume we have
 *
 * defined `HeroesService`
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes-service"}
 *
 * and that we have included this in our upgrade app `NgModule`:
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes-service"}
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * `{@example upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service"}
 *
 * Inside an AngularJS component's controller we can get hold of the
 * downgrade service via the
 * name we gave when downgrading.
 *
 * `{@example upgrade/static/ts/full/module.ts region="example-app"}
 *
 * When using `downgradeModule()`, downgraded injectables will not
 * be available until the Angular
 * module that provides them is instantiated. In order to be safe, you need to ensure
 * that the
 * downstream injectables are not used anywhere _outside_ the part of the app where it is
 * guaranteed
 * that their module has been instantiated.
 *
 * For example, it is _OK_ to use a downgrade service in an
 * upgraded component that is only used
 * from a downgrade Angular component by the same Angular
 * module as the injectable, but _not OK_ to use it in an AngularJS component that may be used
 * independently of Angular
 * and
 * use it in a downgrade Angular component from a different module.
@param token an `InjectionToken` that identifies a service provided from Angular.

@param downgradedModule the name of the downgraded module (if any) that the injectable
"belongs to", as returned by a call to `downgradeModule()`.

It is the module, whose injector will be used for instantiating the
injectable. (This option is only necessary when using `downgradeModule()` to downgrade more than one
Angular module.)

@returns a [factory function](https://docs.angularjs.org/guide/di) that can be used
to register the service on an AngularJS module.

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
```

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We store the ng1 injector so that the provider in the module injector can access it.
Then we `get` the ng1 injector from the module injector, which triggers the provider to read the
reference to it.

```typescript
let tempInjectorRef: IInjectorService = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks
  return injector;
}
```

We must use exported named functions for the ng2 factories to keep the compiler happy.

```typescript
export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}
```
A helper function for creating an AngularJS module that can bootstrap an Angular module
^{on-demand}\(\) (possibly lazily) when a \(\text{@link downgradeComponent downgraded component}\) needs to be \(\text{instan}tiated.\(\) It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to\(\) pay the cost up-front. For example, you can have an AngularJS application that uses Angular for\(\) specific routes and only instantiate the Angular modules if/when the user visits one of these\(\) routes.\(\) The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.\(\) \(\text{Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be\(\) available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded\(\) module\(\) component.\(\) It does not try to tie the two change detection systems as\(\) tightly, restricting the explicit change detection runs only to cases where it knows it is\(\) necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.\(\) For a more detailed discussion of the differences and their implications, see \(\text{Upgrading for Performance}\) for more details on how to use \(\text{`downgradeModule()`}\) see .\(\) For more details on how to use \(\text{`downgradeModule()`}\) see .

\(\text{Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be\(\) available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded\(\) module\(\) component.\(\) It does not try to tie the two change detection systems as\(\) tightly, restricting the explicit change detection runs only to cases where it knows it is\(\) necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.\(\) For a more detailed discussion of the differences and their implications, see \(\text{Upgrading for Performance}\) for more details on how to use \(\text{`downgradeModule()`}\) see .\(\) For more details on how to use \(\text{`downgradeModule()`}\) see .
* If you want some injectables to be shared among all downgraded modules, you can provide them as
  `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or
  `platformBrowserDynamic`).

* When using `{@link PlatformRef#bootstrapmodule bootstrapModule}`
  or `{@link PlatformRefbootstrapmodulefactory bootstrapModuleFactory}` to bootstrap then a
  downgraded module, each one is considered a "root" module. As a consequence, a new instance
  will be created for every injectable provided in "\root\" (via `\`@link Injectable#providedIn providedIn\`).

  If this is not your intention, you can have a shared module (that will act as the "root" module) and create all
  downgraded modules using that module's injector:

```typescript
    {example upgrade/static/ts/lite-multi-shared/module.ts
        region="shared-root-module"
```
const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
    if (directive.compile & & !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery)
    : string|Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const templateUrl = $templateCache.get(url);
      if (templateUrl !== undefined) {
        return templateUrl;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService
          $httpBackend('GET', url, null, (status: number, response: string) => {
            if (status === 200) {
              resolve($templateCache.put(url, response));
            } else {
              reject(`GET component template from '${url}' returned '${status}: ${response}'`);
            }
          });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data ![controllerKey(this.directive.name !), controller];

    return controller;
  }

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const $scope: IScope = this.$scope || {};
    const $template = $scope[$template];
    const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
    const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

    if (transclude) {
      const slots = Object.create(null);

      if (typeof transclude === 'object') {
        $template = [];

        const slotMap = Object.create(null);
        const filledSlots = Object.create(null);

        // Parse the element selectors.
        Object.keys(transclude).forEach(slotName => {
          let selector = transclude[slotName];
          const optional = selector.charAt(0) === '?';
          selector = optional ? selector.substring(1) : selector;

          slotMap[directiveNormalize(selector)] = slotName;
          slots[slotName] = null;
        });

        // Add the matching elements into their slot.
        contentChildNodes.forEach(node => {
          const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())]
          if (slotName) {
            filledSlots[slotName] = true;
          } else {
            filledSlots[slotName] = slots[slotName] || [];
          }
        });
      }
    }
  }
EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, @Input as looseIdentical from '@angular/core': import { IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, InjectorService, ILinkFn, IScope, ITranscludeFunction } from './/src/common/src/angular1': import { SSCOPE } from './/src/common/src/constants': import { IBindingDestination, IControllerInstance, UpgradeHelper } from './/src/common/src/upgrade_helper': import { isFunction } from './/src/common/src/util':

**NOT_SUPPORTED**: any = 'NOT_SUPPORTED';

**INITIAL_VALUE**: {
  __UNINITIALIZED__: true
};

**expressionBoundProperties**: string[] = [

**propertyToOutputMap**: {
  propName: string
};

Let's assume that you have an AngularJS component called 'ng1Hero' that needs to be made available in Angular templates. We must create a `Directive` that will make this AngularJS component available inside Angular templates.

Let's assume that you have an AngularJS component called 'ng1Hero' that needs to be made available in Angular templates.
`${this.directive.name}` specifies 'bindToController' but no controller.

```typescript
this.bindingDestination = bindToController ? this.controllerInstance : this.ScopedScope;
this.bindOutputs();
// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}
// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

// Set up outputs
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}
// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
this.bindOutputs();
// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}
// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
this.bindOutputs();
// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}
// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
this.bindOutputs();
// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}
// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}
```

```typescript
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
```

```typescript
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
```

```typescript
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
```

```typescript
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
```

```typescript
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
```

```typescript
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
```

```typescript
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
```
```typescript
this.bindingDestination[propName] = (value: any) => emitter.emit(value);
}

this.forwardChanges(changes: SimpleChanges) {
  for (let propName in changes) {
    this.bindingDestination[propName] = changes[propName].currentValue;
    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/converters';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the `upgrade/static` library for hybrid upgrade apps that support AOT
 * compilation
 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components
 * to be used together inside a hybrid upgrade application, which supports AOT compilation.
 * Specifically, the classes and functions in the `upgrade/static` module allow the following:
 * Creation of an Angular directive that wraps and exposes an AngularJS component so
 * that it can be used in an Angular template. See `UpgradeComponent`
 * Creation of an AngularJS directive that wraps and exposes an Angular component so
 * that it can be used in an AngularJS template. See `downgradeComponent`
 * Creation of an Angular root injector provider that wraps and exposes an AngularJS service so
 * that it can be used in an Angular context. See `AngularModule` below.
 * Creation of an AngularJS service that wraps and exposes an Angular injectable so
 * that it can be injected into an AngularJS context. See `UpgradeModule` below.
 * Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * coexisting in a single application.
 * Import a UpgradeModule from `upgrade/static`
 * Import an UpgradeModule from `upgrade/static` and `upgrade/service`
 * See also the `AngularModule` and `UpgradeModule` and `UpgradeModule#examples` examples
 * when reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level. (1) There are two independent frameworks running in a single application, each framework treats the other as a black box.
 * Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own
 * DOM elements and ignores others. (2) AngularJS directives always execute inside the AngularJS framework codebase regardless of whether they are instantiated.
 * Angular components always execute inside the Angular framework codebase regardless of whether they are instantiated.
 * An AngularJS component can be \`\`upgraded\`\` to an Angular component. This is achieved by
 * defining an Angular directive, which bootstraps the AngularJS component at its location
 * in the DOM. See `UpgradeComponent`.
 * An Angular component can be \`\`downgraded\`\` to an AngularJS component. This is achieved by
 * defining an AngularJS directive, which bootstraps the Angular component at its location
 * in the DOM. See `downgradeComponent`.
 * Whenever an \`\`upgraded\`\`\` component is instantiated the host element is owned by
 * the framework doing the instantiation. The other framework then instantiates and owns the
 * view for that component. This implies that the component bindings will always follow the semantics of the initialization framework.
 * The DOM attributes are parsed by the framework that owns the current template. So
 * attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
 * However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
 * Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 */
```
application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. Let's say this class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services. The core AngularJS services and the `UpgradeModule` class are imported to an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

#### Core AngularJS services

Importing this `NgModule` will add providers for the core AngularJS services and the `UpgradeModule` class

#### Bootstrap

The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

### Examples

#### Import the `UpgradeModule` into your top level `NgModule`.

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

#### Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level `AngularModule`.

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

#### Upgrade an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

1. Define an Angular provider to be included in your `NgModule` `providers` property.
2. Use the "upgraded" AngularJS service by injecting it into an Angular component or service.

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

1. Define an Angular provider to be included in your `NgModule` `providers` property.
2. Use the "upgraded" AngularJS service by injecting it into an Angular component or service.

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

1. Define an Angular provider to be included in your `NgModule` `providers` property.
2. Use the "upgraded" AngularJS service by injecting it into an Angular component or service.

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the AngularJS `NgZone` and the `UpgradeModule` class

```ts
import {UpgradeModule} from '@angular2/upgrades';

@NgModule({
    providers: [UpgradeModule]
})
export class AppModule {

    constructor(private injector: Injector) {
        injector.get(UpgradeModule).bootstrap();
    }
}
```
// Wrap the $interval service so that setInterval is called outside NgZone.
// but the callback is still invoked within it. This is so that $interval
// won't block stability, which preserves the behavior from AngularJS.
let wrappedInterval =
  (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]) => {
    return this.ngZone.runOutsideAngular(() => {
      return intervalDelegate((...args: any[]) => {
        // Run callback in the next VM turn - $interval calls
        // $rootScope.$apply, and running
        // the callback in NgZone will
        // cause a '$digest already in progress' error if it's in the
        // same vm turn.
        setTimeout(() => { this.ngZone.run(() => fn(...args)); });
      }, delay, count, invokeApply, ...pass);
    });
  };

(wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
return wrappedInterval;

// Initialize the ng1 $injector provider
setTempInjectorRef($injector);
this.injector.get($INJECTOR);

// Put the injector on
the DOM, so that it can be \required\element.angularElement(element).data

// We need to do this in the next tick so that we don't prevent the bootup
// stabilizing
setInterval(() => {
  const $rootScope = $injector.get('$rootScope');

  const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
    if ($rootScope.$$phase) {
      if (isDevMode()) {
        console.warn('A digest was triggered while one
        was already in progress. This may mean that something is triggering digests outside the Angular zone.\n      }
    }
  });
  $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
}, 0);

const upgradeModule = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

// Make sure resumeBootstrap() only exists if the current
// bootstrap is deferred\nconst windowAngular = (window as any)['angular'];
windowAngular.resumeBootstrap = undefined;
// Bootstrap the AngularJS application inside our zone\nthis.ngZone.run(() => {
  const bootstrap = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));
  // Patch resumeBootstrap() to run inside the ngZone
  if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap: () => void =
      windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = function() {
      let args = arguments;
      windowAngular.resumeBootstrap = originalResumeBootstrap;
      return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    };
  }
});

return $rootScope.$evalAsync();

return $rootScope.$digest();

windowAngular.resumeBootstrap = undefined;

bootstrap(element, [upgradeModule.name], config); });

// Patch resumeBootstrap() to run inside the ngZone
if (windowAngular.resumeBootstrap) {
  const originalResumeBootstrap: () => void =
    windowAngular.resumeBootstrap;
  const ngZone = this.ngZone;
  windowAngular.resumeBootstrap = function() {
    const originalResumeBootstrap = () => void =
      windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
  };
  };
}

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e, compileFactory as ɵangular_packages_upgrade_static_static_c, injectorFactory as ɵangular_packages_upgrade_static_static_a, parseFactory as ɵangular_packages_upgrade_static_static_d, rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from './src/angular1_providers';
No license file was found, but licenses were detected in source scan.

```json
```

```
/**
 * @license
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
```
export interface ICloneAttachFunction {
(clonedElement: IAugmentedJQuery, scope: IScope): any;
}
export interface IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => void;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => void;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  controller?: (name: string) => void;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string, Event, extraParameters?: any[]) => void;
}
export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  factory(token: Ng1Token, factory: IInjectable): IProvider;
  service(token: Ng1Token, type: Injectable): IProvider;
  value(token: Ng1Token, value: any): IProvider;
  constant(token: Ng1Token, value: any): void;
}
export interface IHttpBackendService {
(method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
}
export interface ITemplateRequestService {
template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean: boolean;
}
export interface ITemplateCacheService extends ICacheObject {}
export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean: boolean;
}
export interface IController = string | IInjectable;
export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}
export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}
export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean: boolean, ...args: any[]): Promise<any>:
  cancel(promise: Promise<any>): boolean;
}
export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean: boolean,
  findModels(element: Element, expression: string, opt_exactMatch?: boolean: boolean,
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}
export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $viewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {[key: string]: Function};
  $asyncValidators: {[key: string]: Function};
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean: boolean,
  version: {major: number},
  resumeBootstrap: () => void;
}

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularLib` instead.
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 */
export function
```typescript
export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) : undefined;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade-app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a dynamic
  // `ngUpgrade`).
  Dynamic,

  // App using @angular/upgrade/static with `UpgradeModule`. (a.k.a.
  // ngUpgrade-static).
  Static,

  // App using @angular/upgrade/static with `downgradeModule()` (a.k.a.
  // ngUpgrade-lite).
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN` !== `NaN`.
 * @return true for strict equality, accounting for the fact that `NaN` !== `NaN`.
 * @return false otherwise.
 */
function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {ApplicationRef, ChangeDetectorRef,}
/*add more imports here*/ from 'angular1';
import {$SCOPE} from './constants';
```
private inputChangeCount: number = 0;

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChanges: SimpleChanges = {};

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel: INgModelController, private parentInjector: Injector,
    private $injector: IInjectorService, private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][
    const compiledProjectableNodes: Node[][] = 
    this.groupProjectableNodes();
    const linkFns = compiledProjectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
        }));

    return compiledProjectableNodes;
  }

  createComponent(nodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({
      providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    this.componentRef = this.componentFactory.create(childInjector,
      nodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);
    }

    this.componentRef.injector.get(TestabilityRegistry)
      .registerApplication(this.componentRef.location.nativeElement, testability);
  }

  setupInputs(propagateDigest = true): void {
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string|null = null;

      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
      }
      if (expr != null) {
        const watchFn = (prop => (currValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
        this.componentScope.$watch(expr, watchFn);
      }
    }

    if (propagateDigest) {
      this.updateInput(prop, prevValue, currValue);
      this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);
      this.componentScope.$watch(() => this.inputChangeCount,
        () => {
          if (this.inputChangeCount) {
            this.componentScope.$watch(() => this.inputChangeCount,
              () => {
                this.componentScope.$watch(() => this.inputChangeCount,
                  () => {
                    this.componentScope.$watch(() => this.inputChangeCount,
                      () => {
                        this.componentScope.$watch(() => this.inputChangeCount,
                          () => {
                        });
                      });
                    });
                  });
                });
              });
            });
          });
        });
      });
    });
  }
```javascript
this.wrapCallback(() => {
  // Invoke `ngOnChanges()`
  if (this.implementsOnChanges) {
    const inputChanges = this.inputChanges;
    this.inputChanges = {};
  }

  (<OnChanges>this.component).ngOnChanges(inputChanges);

  this.viewChangeDetector.markForCheck();
  // If not opted out of propagating digests, invoke change detection
  if (propagateDigest) {
    const detectChanges = this.detectChanges;
    detectChanges();
    // If necessary, attach the view so that
    // it will be dirty-checked. // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || propagateDigest) {
      detectChanges();
      // If opted out of propagating digests, invoke change detection on every digest
      if (propagateDigest) {
        const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);
      }
    }
  }

  this.componentScope.$watch(this.wrapCallback(detectChanges));

  // If opted out of propagating digests, invoke change detection on every digest
  if (propagateDigest) {
    this.componentScope.$watch(this.wrapCallback(detectChanges));
  }

  // If necessary, attach the view so that
  // it will be dirty-checked.
  if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function|null = this.componentScope.$watch(() => {
      unwatch !();
      unwatch = null;
      this.componentScope.$watch(this.wrapCallback(detectChanges));
    });
  }

  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);

  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const inputChangeCount += 1;
    this.component[outputs[j].propName] = outputs[j].templateName;
    const bindOnAttr = output.bindOnAttr.substring(0, output.bindOnAttr.length - 6);
    const bracketParenAttr = output.bindOnAttr.substring(2, output.bindOnAttr.length - 8);
    const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
    appRef.attachView(this.componentRef.hostView);
  }

  this.subscribeToOutput(output, expr, isAssignment);
  if (isAssignment && !setter) {
    throw new Error('Expression '${expr}' is not assignable!');
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => emitter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component

    `);}

  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on !('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });

  if (isAssignment) {
    const groupProjectableNodes = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(groupProjectableNodes, this.element.contents !());
  }

  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on !('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });

  if (isAssignment) {
    const groupProjectableNodes = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(groupProjectableNodes, this.element.contents !());
  }

  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on !('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });

  if (isAssignment) {
    const groupProjectableNodes = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(groupProjectableNodes, this.element.contents !());
  }
```
module.
*
- `propagateDigest?: boolean`: Whether to perform [@link ChangeDetectorRef#detectChanges\n * change detection] on the component on every\n*
[\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n*
change detection will still be performed when any of the component's inputs changes.\n*
(\$digest\[\$digest\][\$digest\])\n*

## ngUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\nconst   wrapCallback: <T>(cb: () => T) => typeof cb =\n      !isNgUpgradeLite ? cb => cb : cb => () =>   NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n      let ngZone = NgZone;\n
## When downgrading multiple modules, special handling is needed w\n-

## NOTES:
This is not needed, when using 'UpgradeModule', because '\n-

## Notes:
- If there is no parent component (thus no\n-
- If there is a parent component, but it may belong\n-
-
## Notes:
- There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n-
-
## Notes:
- If the `NgModule` is already bootstrapped, we just get its injector (we don't\n-
-
## Notes:
There may be more than one injector (e.g. because there is only\n-
-
## Notes:
If this is not the case, then we\n-
-
## Notes:
In that case, we could have used the
`parentInjector` as both
    //           `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`s. That doesn't
    // really affect anything, since `parentInjector` has `moduleInjector` as ancestor
    // and trying to resolve
    `ComponentFactoryResolver` from either one will return
    // the same instance.
    // If there is a
    parent component, use its injector as parent injector.
    // If this is a 'top-level' Angular component, use the
    module injector.
    const finalParentInjector = parentInjector || moduleInjector !;
    // If there is a parent component that belongs to the same
    'NgModule', use its injector.
    const finalModuleInjector = moduleInjector || parentInjector !;

    const
doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      // Retrieve `ComponentFactoryResolver`
      from the injector tied to the `NgModule` this
      // belongs to.
      const componentFactoryResolver: ComponentFactoryResolver =
      moduleInjector.get(ComponentFactoryResolver);
      const componentFactory: ComponentFactory<any> =
      componentFactoryResolver.resolveComponentFactory(info.component) !;

      if (!componentFactory) {
        throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
      }

      const injectorPromise = new ParentInjectorPromise(element);
      const facade = new
      DowngradeComponentAdapter(
          element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
          componentFactory, wrapCallback);

      const projectableNodes = facade.compileContents();
      facade.createComponent(projectableNodes);
      facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
      facade.setupOutputs();
      facade.registerCleanup();

      injectorPromise.resolve(facade.getInjector());

      if (ranAsync) {
        // If this is run async, it is possible
        // that it is not run inside a
        // digest and initial input values will not be detected.
        scope.$evalAsync(() => {});
      }
    };

    const downgradeFn =
        !isNgUpgradeLite ? doDowngrade : (pInjector:
        Injector, mInjector: Injector) => {
          if (!ngZone) {
            ngZone = pInjector.get(NgZone);
          }

          wrapCallback(() => doDowngrade(pInjector, mInjector))();
        };

    // NOTE:
    // Not
    using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or
    some related tool) complains:
    // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a
    function`
    SyncPromise.all([finalParentInjector, finalModuleInjector])
        .then(([pInjector, mInjector])=> downgradeFn(pInjector, mInjector));

    ranAsync = true;
  }
};

// bracket-notation because
of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return
directiveFactory;

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 *
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 * found in the
 * LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function that provides access to the Angular
 * service identified by the
 * `token` parameter.
 * @example upgrade/static/ts/full/module.ts
 * @example upgrade/static/ts/full/module.ts:ng2-heroes-service
 */

[Injectable]('HeroesService', {provide: {HeroesService: [HeroesServiceService, new

private injectKey: string = controllerKey(INJECTOR_KEY);

constructor(private element:
IAugmentedJQuery) {
  super();
  // Store the promise on the element.
  element.data !(this.injectorKey,
  this);
  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data !(this.injectorKey,
    injector);
    // Release the element to prevent memory leaks.
    this.element = null !;
    super.resolve(injector);
    super.$**$* @license & Copyright Google Inc. All Rights
    Reserved.

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* found in the
* LICENSE file at https://angular.io/license
*/

import {HeroesService} from './heroes';
import {HeroesService, INJECTOR_KEY} from './constants';

@Injectable()
export class HeroesService {
  getHeroes() {
    throw new Error('

    // bracket-notation because
    of closure - see #14441
    directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
    return
directiveFactory;

    /**
     * @description
     *
     * A helper function to
     * allow an Angular service to be accessible from AngularJS.
     *
     * *Part of the
     * library for hybrid upgrade apps that support AOT compilation*
     * This helper function returns a factory function that provides access to the Angular
     * service identified by the
     * `token` parameter.
     * @example upgrade/static/ts/full/module.ts
     * @example upgrade/static/ts/full/module.ts:ng2-heroes-service
     */

     [Injectable]('HeroesService', {provide: {HeroesService: [HeroesServiceService, new
     */

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Now we can register the `downgradeInjectable` factory function for the service on an AngularJS module.

```typescript
* @example upgrade/static/ts/full/module.ts
...
...<div class="alert is-important">
*
*   When using `downgradeModule()`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but _not_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.

```typescript
* @param token an `InjectionToken` that identifies a service provided from Angular. It is the module, whose injector will be used for instantiating the injectable. If this option is only necessary when using `downgradeModule()` to downgrade more than one Angular module, it returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.

```typescript
* @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.

```typescript
* @publicApi
```
IAugmentedJQuery): string|Promise<string> {
  if (directive.template !== undefined) {
    return getOrCall<string>(directive.template, $element);
  } else if (directive.templateUrl) {
    const templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
    const url = getOrCall<string>(directive.templateUrl, $element);
    if (template !== undefined) {
      return template;
    } else if (!fetchRemoteTemplate) {
      throw new Error('loading directive templates asynchronously is not supported');
    }
    return new Promise((resolve, reject) => {
      const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
      $httpBackend('GET', url, null, (status: number, response: string) => {
        if (status === 200) {
          resolve($templateCache.put(url, response));
        } else {
          reject(`GET component template from '${url}' returned '${status}: ${response}'`);
        }
      });
    });
  } else {
    throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
  }
}

buildController(controllerType: IController, $scope: IScope) {
  // TODO: Document that we do not pre-assign bindings on the controller instance.
  // Quotted properties below so that this code can be optimized with Closure Compiler.
  const locals = {'$scope': $scope, '$element': this.$element};
  const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
  this.$element.data !(controllerKey(this.directive.name !), controller);

  return controller;
}

compileTemplate(template?: string): ILinkFn {
  if (template === undefined) {
    template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element) as string;
  }

  return this.compileHtml(template);
}

destroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }
  $scope.$destroy();

  // Clean the jQuery/jqLite data on the component+child elements.
  // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element) fn
  // https://github.com/jquery/jquery/blob/bf320d3d2bdf4c7a0f2c058f7d31d99b7e7a5ec1/lib/manipulation.js#L223
  // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2a9b70d864d688c82/src/jqLite.js#L306-L312
  // `cleanData` will invoke the AngularJS `$destroy` DOM event fn
  // https://angularjs.org/angular.js/blob/26ddc5f830f902a3d22f4b2a9b70d864d688c82/src/Angular.js#L1911-L1924
  angularElement.cleanData([this.element]);
  angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
    // `$template` is empty. Since the transcluded content comes from Angular,
    // not AngularJS, there will be no transclusion scope here.
    // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
    scope = scope || {$destroy: () => undefined};
    return cloneAttachFn(!$template, scope);
  };

  let $template = contentChildNodes;

  if (transclude) {
    const slots = Object.create(null);

    if (typeof transclude === 'object') {
      $template = [];

      const slotMap = Object.create(null);
      const filledSlots = Object.create(null);

      // Parse the element selectors.
      Object.keys(transclude).forEach(slotName => {
        let selector = transclude[slotName];
        const optional = selector.charAt(0) === '?';
        selector = optional ? selector.substring(1) : selector;
        slotMap[directiveNormalize(selector.toLowerCase())] = slotName;
        slots[slotName] = null;
        // `null`: Defined but not yet filled.
      });

      $template = contentChildNodes;
      $template = contentChildNodes.forEach(node => {
        const selector = optional ? selector.substring(1) : selector;
        const slotMap = slotMap[directiveNormalize(selector.toLowerCase())];
        if (selector.charAt(0) === '?') {
          // Consider optional slots as filled.
          filledSlots[slotName] = optional;
        } else {
          if (transclude[slotName]) {
            throw new Error('Required transclusion slot `{templateName}` on directive: `{this.name}`');
          } else {
            $template.push(node);
          }
          // Check for required slots that were not filled.
          Object.keys(filledSlots).forEach(slotName => {
            if (!filledSlots[slotName]) {
              throw new Error('Required transclusion slot `{templateName}` on directive: `{this.name}`');
            } else {
              slots[slotName] = true;
            }
          });
        }
        // Add the matching elements into their slot.
        $template.forEach(node => {
          const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
          if (slotName) {
            filledSlots[slotName] = true;
            slots[slotName] = slots[slotName] || [];
            slots[slotName].push(node);
          } else {
            $template.push(node);
          }
        });
        // Check for required slots that were not filled.
        Object.keys(filledSlots).forEach(slotName => {
          if (filledSlots[slotName]) {
            throw new Error('Required transclusion slot `{templateName}` on directive: `{this.name}`');
          }
        });
      });
    }
  }

  return attach.$$slots` to default slot transclude fn.
}
attachChildrenFn.$$slots = slots;\n\n
// AngularJS v1.6+ ignores empty or whitespace-only transcluded text
nodes. But Angular\n
// removes all text content after the first interpolation and updates it later, after\n
//
evaluating the expressions. This would result in AngularJS failing to recognize text\n
// nodes that start with an
interpolation as transcluded content and use the fallback\n
// content instead.\n
// To avoid this issue, we add
a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n
// to empty
text nodes (which can only be a result of Angular removing their initial content).\n
// NOTE: Transcluded text
content that starts with whitespace followed by an interpolation\n
//
will still fail to be detected by AngularJS
v1.6+\n
$template.forEach(node => {\n
if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
{\n
node.nodeValue = '\\u200C';\n
}\n
});\n }\n\n return attachChildrenFn;\n }\n\n
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n const directiveRequire =
this.getDirectiveRequire();\n const requiredControllers = this.resolveRequire(directiveRequire);\n\n if
(controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {\n
const
requiredControllersMap = requiredControllers as{[key: string]: IControllerInstance};\n
Object.keys(requiredControllersMap).forEach(key => {\n
controllerInstance[key] =
requiredControllersMap[key];\n
});\n }\n\n return requiredControllers;\n }\n\n private compileHtml(html:
string): ILinkFn {\n this.element.innerHTML = html;\n return this.$compile(this.element.childNodes);\n }\n\n
private extractChildNodes(): Node[] {\n const childNodes: Node[] = [];\n let childNode: Node|null;\n\n while
(childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n }\n\n return childNodes;\n }\n\n private getDirectiveRequire():
DirectiveRequireProperty {\n const require = this.directive.require || (this.directive.controller &&
this.directive.name) !;\n\n if (isMap(require)) {\n
Object.keys(require).forEach(key => {\n
const value =
require[key];\n
const match = value.match(REQUIRE_PREFIX_RE) !;\n
const name =
value.substring(match[0].length);\n\n
if (!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n\n return require;\n }\n\n private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
any):\n SingleOrListOrMap<IControllerInstance>|null {\n if (!require) {\n
return null;\n } else if
(Array.isArray(require)) {\n
return require.map(req => this.resolveRequire(req));\n } else if (typeof require
=== 'object') {\n
const value: {[key: string]: IControllerInstance} = {};\n
Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key]) !);\n
return value;\n } else if (typeof require === 'string') {\n
const match = require.match(REQUIRE_PREFIX_RE) !;\n
const inheritType = match[1] || match[3];\n\n
const name = require.substring(match[0].length);\n
const isOptional = !!match[2];\n
const searchParents =
!!inheritType;\n
const startOnParent = inheritType === '^^';\n\n
const ctrlKey = controllerKey(name);\n
const elem = startOnParent ? this.$element.parent !() : this.$element;\n
const value = searchParents ?
elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n\n
if (!value && !isOptional) {\n
throw new Error(\n
`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n
}\n\n
return value;\n }
else {\n
throw new Error(\n
`Unrecognized 'require' syntax on upgraded directive '${this.name}':
${require}`);\n }\n }\n}\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]): T {\n return
isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only works for `typeof T !== 'object'`.\nfunction
isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {\n return value && !Array.isArray(value)
&& typeof value === 'object';\n}\n\nfunction notSupported(name: string, feature: string) {\n throw new
Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n","/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, DoCheck, ElementRef,
EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from
'@angular/core';\n\nimport {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope,
ITranscludeFunction} from '../../common/src/angular1';\nimport {$SCOPE} from
'../../common/src/constants';\nimport {IBindingDestination, IControllerInstance, UpgradeHelper} from
'../../common/src/upgrade_helper';\nimport {isFunction, strictEquals} from '../../common/src/util';\n\n\nconst
CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n __UNINITIALIZED__: true\n};\nconst

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NOT_SUPPORTED: any = 'NOT_SUPPORTED';\n\n\nexport class UpgradeNg1ComponentAdapterBuilder {\n //
TODO(issue/24571): remove '!'.\n type !: Type<any>;\n inputs: string[] = [];\n inputsRename: string[] = [];\n
outputs: string[] = [];\n outputsRename: string[] = [];\n propertyOutputs: string[] = [];\n checkProperties: string[] =
[];\n propertyMap: {[name: string]: string} = {};\n directive: IDirective|null = null;\n // TODO(issue/24571):
remove '!'.\n template !: string;\n\n constructor(public name: string) {\n const selector =\n
name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());\n const self = this;\n\n //
Note: There is a bug in TS 2.4 that prevents us from\n // inlining this into @Directive\n // TODO(tbosch): find or
file a bug against TypeScript for this.\n const directive = {selector: selector, inputs: this.inputsRename, outputs:
this.outputsRename};\n\n @Directive({jit: true, ...directive})\n class MyClass extends
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck,\n
OnDestroy {\n
constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {\n
super(\n
new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,\n
self.template,
self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,\n
self.propertyMap) as any;\n
}\n }\n
this.type = MyClass;\n }\n\n extractBindings() {\n const btcIsObject = typeof this.directive !.bindToController
=== 'object';\n if (btcIsObject && Object.keys(this.directive !.scope !).length) {\n
throw new Error(\n
`Binding definitions on scope and controller at the same time are not supported.`);\n }\n\n const context =
(btcIsObject) ? this.directive !.bindToController : this.directive !.scope;\n\n if (typeof context == 'object') {\n
Object.keys(context).forEach(propName => {\n
const definition = context[propName];\n
const
bindingType = definition.charAt(0);\n
const bindingOptions = definition.charAt(1);\n
const attrName =
definition.substring(bindingOptions === '?' ? 2 : 1) || propName;\n\n
// QUESTION: What about `=*`? Ignore?
Throw? Support?\n\n
const inputName = `input_${attrName}`;\n
const inputNameRename =
`${inputName}: ${attrName}`;\n
const outputName = `output_${attrName}`;\n
const outputNameRename
= `${outputName}: ${attrName}`;\n
const outputNameRenameChange = `${outputNameRename}Change`;\n\n
switch (bindingType) {\n
case '@':\n
case '<':\n
this.inputs.push(inputName);\n
this.inputsRename.push(inputNameRename);\n
this.propertyMap[inputName] = propName;\n
break;\n
case '=':\n
this.inputs.push(inputName);\n
this.inputsRename.push(inputNameRename);\n
this.propertyMap[inputName] = propName;\n\n
this.outputs.push(outputName);\n
this.outputsRename.push(outputNameRenameChange);\n
this.propertyMap[outputName] = propName;\n\n
this.checkProperties.push(propName);\n
this.propertyOutputs.push(outputName);\n
break;\n
case '&':\n
this.outputs.push(outputName);\n
this.outputsRename.push(outputNameRename);\n
this.propertyMap[outputName] = propName;\n
break;\n
default:\n
let json =
JSON.stringify(context);\n
throw new Error(\n
`Unexpected mapping '${bindingType}' in '${json}'
in '${this.name}' directive.`);\n
}\n
});\n }\n }\n\n /**\n * Upgrade ng1 components into Angular.\n
*/\n static resolve(\n
exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},\n
$injector: IInjectorService): Promise<string[]> {\n const promises = Object.keys(exportedComponents).map(name
=> {\n
const exportedComponent = exportedComponents[name];\n
exportedComponent.directive =
UpgradeHelper.getDirective($injector, name);\n
exportedComponent.extractBindings();\n\n
return Promise\n
.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n
.then(template =>
exportedComponent.template = template);\n });\n\n return Promise.all(promises);\n }\n}\n\nclass
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {\n private controllerInstance:
IControllerInstance|null = null;\n destinationObj: IBindingDestination|null = null;\n checkLastValues: any[] = [];\n
directive: IDirective;\n element: Element;\n $element: any = null;\n componentScope: IScope;\n\n constructor(\n
private helper: UpgradeHelper, scope: IScope, private template: string,\n
private inputs: string[], private outputs:
string[], private propOuts: string[],\n
private checkProperties: string[], private propertyMap: {[key: string]:
string}) {\n this.directive = helper.directive;\n this.element = helper.element;\n this.$element =
helper.$element;\n this.componentScope = scope.$new(!!this.directive.scope);\n\n const controllerType =
this.directive.controller;\n\n if (this.directive.bindToController && controllerType) {\n
this.controllerInstance
= this.helper.buildController(controllerType, this.componentScope);\n
this.destinationObj =

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this.controllerInstance;
  } else {
    this.destinationObj = this.componentInstance;
  }

  if (this.propOuts.length > 0) {
    // Clone property name from parent scope
    this.checkProperties.forEach((propName, i) => {
      this.checkLastValues.push(INITIAL_VALUE);
    });

    // Linking
    const linkFn = this.directive.link;
    const preLink = typeof linkFn == 'object' && linkFn.pre;
    const postLink = typeof linkFn == 'object' ? linkFn.post : linkFn;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }
  }

  ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj ![propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      this.controllerInstance.$doCheck();
    }
  }

  ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

  setComponentProperty(name: string, value: any) {
    this.destinationObj ![this.propertyMap[name]] = value;
  }

  // Some other code...

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';
import {downgradeComponent} from '../../common/src/downgrade_component';
import {downgradeInjectable} from '../../common/src/downgrade_injectable';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See 

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3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
   coexisting in a single application.

### Mental Model

When reasoning about how a hybrid application works it is useful to have a mental model which
   describes what is happening and explains what is happening at the lowest level. There are two independent
   frameworks running in a single application, each framework treats
   the other as a black box.

Each DOM element on the page is owned exactly by one framework. Whichever framework
   instantiated the element is the owner.

AngularJS directives always execute inside AngularJS framework codebase regardless of where they are
   instantiated. Angular components always execute inside Angular framework codebase regardless of

where they are instantiated. An AngularJS component can be upgraded to an Angular component. This creates

Angular directive, which boots the AngularJS component directive in that location.

An Angular component can be downgraded to an AngularJS component directive. This creates

which boots the Angular component in that location. Whenever an adapter component is instantiated the host
   element is owned by the framework that performs the instantiation. The other framework then instantiates and
   owns the view for that component. This implies that component bindings will always follow the semantics of

the instantiation framework. The syntax is always that of Angular syntax.

The new application is running in Angular zone, and therefore it no longer needs calls to
   `$apply()`.

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}](<span ng-transclude></span>)
  };
});

@Component({
  selector: 'ng2-comp',
  inputs: ['name'],
  template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',
  directives:
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
})
class MyNg2Module {
}

document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2[ng1[Hello World!] (transclude)](project)" ''
});
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
   [Ahead-of-Time compilation](guide/aot-compiler).

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}](<span ng-transclude></span>)
  };
});

@Component({
  selector: 'ng2-comp',
  inputs: ['name'],
  template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',
  directives:
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
})
class MyNg2Module {
}

document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2[ng1[Hello World!] (transclude)](project)" '');
});
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
   [Ahead-of-Time compilation](guide/aot-compiler).
controlled by AngularJS and communicates with the downgraded Angular component

```typescript
//... (existing code)

  /**
   * Registers the adapter's AngularJS upgrade module for unit testing in AngularJS.
   * Use this instead of `angular.mock.module()` to load
   * the upgrade module into the AngularJS testing injector.
   *
   * @usageNotes
   * ### Example
   *
   * ```
   * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
   *
   * // configure the adapter with upgrade/downgrade components and services
   * upgradeAdapter.downgradeNg2Component(MyComponent);
   * ```
  */
```

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*\n * let upgradeAdapterRef: UpgradeAdapterRef;\n * let $compile, $rootScope;\n *\n * // We must register
the adapter before any calls to `inject()`\n * beforeEach(() => {\n * upgradeAdapterRef =
upgradeAdapter.registerForNg1Tests(['heroApp']);\n * });\n *\n * beforeEach(inject((_$compile_,
_$rootScope_) => {\n * $compile = _$compile_;\n * $rootScope = _$rootScope_;\n * }));\n *\n * it(\"says
hello\", (done) => {\n * upgradeAdapterRef.ready(() => {\n * const element = $compile(\"<mycomponent></my-component>\")($rootScope);\n * $rootScope.$apply();\n *
expect(element.html()).toContain(\"Hello World\");\n * done();\n * })\n * });\n *\n * ```\n *\n *
@param modules any AngularJS modules that the upgrade module should depend upon\n * @returns an
`UpgradeAdapterRef`, which lets you register a `ready()` callback to\n * run assertions once the Angular
components are ready to test through AngularJS.\n */\n registerForNg1Tests(modules?: string[]):
UpgradeAdapterRef {\n const windowNgMock = (window as any)['angular'].mock;\n if (!windowNgMock ||
!windowNgMock.module) {\n
throw new Error('Failed to find \\'angular.mock.module\\'.');\n }\n
this.declareNg1Module(modules);\n windowNgMock.module(this.ng1Module.name);\n const upgrade = new
UpgradeAdapterRef();\n this.ng2BootstrapDeferred.promise.then(\n
(ng1Injector) => {
(<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);\n return upgrade;\n }\n\n /**\n *
Bootstrap a hybrid AngularJS / Angular application.\n *\n * This `bootstrap` method is a direct replacement (takes
same arguments) for AngularJS\n * [`bootstrap`](https://docs.angularjs.org/api/ng/function/angular.bootstrap)
method. Unlike\n * AngularJS, this bootstrap is asynchronous.\n *\n * @usageNotes\n * ### Example\n *\n
* ```\n * const adapter = new UpgradeAdapter(MyNg2Module);\n * const module =
angular.module('myExample', []);\n * module.directive('ng2', adapter.downgradeNg2Component(Ng2));\n *\n *
module.directive('ng1', function() {\n * return {\n *
scope: { title: '=' },\n *
template: 'ng1[Hello
{{title}}!](<span ng-transclude></span>)'\n * };\n * });\n *\n *\n * @Component({\n * selector: 'ng2',\n
* inputs: ['name'],\n * template: 'ng2[<ng1 [title]=\"name\">transclude</ng1>](<ng-content></ng-content>)'\n
* })\n * class Ng2 {\n * }\n *\n * @NgModule({\n * declarations: [Ng2,
adapter.upgradeNg1Component('ng1')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2 name=\"World\">project</ng2>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n
* ```\n */\n bootstrap(element: Element, modules?: any[], config?: IAngularBootstrapConfig):\n
UpgradeAdapterRef {\n this.declareNg1Module(modules);\n\n const upgrade = new UpgradeAdapterRef();\n\n
// Make sure resumeBootstrap() only exists if the current bootstrap is deferred\n const windowAngular = (window
as any /** TODO #???? */)['angular'];\n windowAngular.resumeBootstrap = undefined;\n\n this.ngZone.run(()
=> { bootstrap(element, [this.ng1Module.name], config !); });\n const ng1BootstrapPromise = new
Promise((resolve) => {\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () =>
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =

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Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
* hybrid application.

* This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.

* @param modules

* The AngularJS modules that this upgrade module should depend upon.

* @returns The AngularJS upgrade module that is declared by this method

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```typescript
platformRef
    .bootstrapModule(
        DynamicNgUpgradeModule, [this.compilerOptions !,
          {ngZone: this.ngZone}])
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;
      this.ng2BootstrapDeferred.resolve(ng1Injector), onError)
    .then(() => {
      let subscription =
      this.ng2BootstrapDeferred.resolve((ng1Injector), onError)
      .then(() => {
        rootScopePrototype.$apply = original$applyFn;  // restore original $apply
        while (delayApplyExps.length) {
          rootScope.$apply(delayApplyExps.shift());
        }
        rootScopePrototype = null;
      });
    })
    .catch((e) =>
      this.ng2BootstrapDeferred.reject(e));
}
```

```typescript
/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS’s $compile.
 */
class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);
    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach((callback) => callback(injector));
    this.callbacks.length = 0;
  }
}
```

```typescript
/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application bootstrapped.
   * The `ready` callback function is invoked inside the Angular zone, therefore
   * it does not require a call to `$apply()`.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = fn;
  }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   * Dispose of running hybrid AngularJS / Angular application.
   */
  public dispose() {
    ng1Injector.$destroy();
    ng2ModuleRef.destroy();
  }
}
```

```typescript
/**
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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of this package. allowing
 * Angular 1 and Angular 2+ to run side by side in the same
 * application.
 */
export {VERSION} from './src/common/src/version';
export {UpgradeAdapter, UpgradeAdapterRef} from './src/dynamic/src/upgrade_adapter';
```

---

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Typescript language service and during build for verification. `ngc`'\nreplaces this file with production index.ts when it rewrites private symbol file names. `\n\nexport * from './public_api';`  
`/**
 * Generated bundle index. Do not edit.
 */

`export * from './public_api';`
1.641 error_prone_annotations 2.2.0

1.641.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-jar/com/google/errorprone/annotations/Var.java

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jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/ws_local/PERMITS_SQL/1058977512_1592470565.69/0/error-prone-annotations-2-2-0-sources-1-
jar/com/google/errorprone/annotations/NoAllocation.java

1.642 metrics 4.1.2

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1.643 jackson-module-parameter-names

2.10.2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.
Open Source Used In MSX Cloud UTD Service Pack 3.9.0  5062

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.647 log4j-over-slf4j 1.7.25

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1.648 libxcb 1.12 1

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1.650 beanshell 2.0b6

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
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Modifed by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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zlib
----

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1.657 hash.js 1.1.7

1.657.1 Available under license:

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Just a bike-shed.

## Install

```sh
```sh
npm install hash.js
```

## Usage

```js
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
```

## Selective hash usage

```js
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
```

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1.658 kerberos 5-1.9
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lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
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1.669 enum34 1.1.6-1

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1.670 body-parser 1.18.2

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1.671 tomcat-embed-websocket 8.5.32

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1.672 jaxb-api 2.2.11

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1.682 jersey-multipart 1.13

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1.685 jackson-jaxrs-json-provider 2.8.4
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1.688 regenerator-runtime 0.13.3
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-------------------------------

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Email local part: ph10
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1.694 kerberos 1.15 1+deb9u1

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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- random/jitterentropy-base.c
- random/jitterentropy.h
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From strings/apr_strnatcmp.c, include/apr_strings.h:

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From strings/apr_snprintf.c:

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* cvt - IEEE floating point formatting routines.  
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file name: UBiDiProps.java
encoding: US-ASCII	tab size: 8 (not used)
indentation: 4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/c.
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font". 


<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.</p>

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.</p>

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:</p>

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement <code>Replaceable</code> in their text representation class.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */
package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.704 react-lifecycles-compat 3.0.4

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1.706 spring-cloud-starter-loadbalancer 2.2.0

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1.712 batik-i18n 1.11

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1.713 spring-security-jwt 1.0.10

1.714 python-paramiko 1.7.5 2.1.el6

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1.728 linux-kernel 3.10.0 327.18.2.el7

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * * http://www.hypermall.com/
 * * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * * interrupts us (except possibly for removal/insertion of the cable?)
 * * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * * and spelling mistakes.
 * * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * * loss of link, and correctly re-enable PHY when link is
 * * re-established. (put back CFG PHYIE)
 * *
 * * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * *
 * * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 */
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*/
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(in case you are wondering where CyberLogin is, EON changed its login
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Jar/ org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaMetricsExportAutoConfiguration.java

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sources-jar/org/springframework/boot/actuate/autoconfigure/endpoint/web/reactive/WebFluxEndpointManagementContextC
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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1.754 spring-boot-starter-validation
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1.755 commons-compiler 2.7.6

1.756 ripemd160 2.0.2

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.769 nanojson 1.2

### 1.770 redux-logger 3.0.6

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Theodore Ts'o
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<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

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   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)
Open Source Used In MSX Cloud UTD Service Pack 3.9.0

$(BSD_LIB): $(OBJS)
$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
 @echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) 
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)
install-shlibs-strip:: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released.

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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1.794 spring-cloud-starter-config
1.4.4.RELEASE

1.795 apache-log4j 1.2.14 6.4.el6
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1.814 spring-web 4.3.6.RELEASE

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1.815 rx-netty 0.4.9

1.816 jackson-module-jaxb-annotations 2.8.4

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jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

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jar/com/google/errorprone/annotations/RequiredModifiers.java
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jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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jar/com/google/errorprone/annotations/FormatMethod.java
1.818 spring-beans 3.2.17.RELEASE
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1.819 tomcat-embed-websocket 8.5.11
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<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
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var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="https://community.apache.org/contributors/">Contribute</a>
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</div>
</div>
</div>
<div class="container">
/* The following code is added by mdx_elementid.py */
/* Hide class="elementid-permalink", except when an enclosing heading */
* has the :hover property. */
.headerlink, .elementid-permalink {
visibility: hidden;
}
</style>
</div>
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1.820 device-mapper 1.02.149 10.el7_6.2

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library``. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library`` with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a ``work that uses the
library``. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library`` uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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of these things:

Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.838 grep 3.3 1

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Eclipse

The following artifacts are EPL.
  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

  * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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**MortBay**

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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**Mortbay**

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.841 libx11 1.6.7 1

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1.842 esapi 2.2.0.0

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1.843 spring-boot 1.5.18.RELEASE

1.844 swagger-annotations 1.5.13

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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}
1.845 python-jsonpointer 1.0 2.el7.centos

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1.846 tomcat-embed-core 8.5.11

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1.853 spring-plugin-metadata 1.2.0.RELEASE

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<one line to give the program's name and a brief idea of what it does.>
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Ty Coon, President of Vice

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------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

=begin

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*(\d{4,})/s
  or die "Year not found in README copyright message '$copyright_msg'";
$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
  or die "Copyright statement not found in perl -v output '$output'";
$year;
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.,"
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3

1.863 netty-handler 4.1.45
1.863.1 Available under license :
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1.900 libxcursor 1.1.14 2.1.el6

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<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">generic</span><span class="o">/</span><span class="n">gssapi_err_generic</span><span class="o">.</span><span class="n">et</span><span class="o"></span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_accept_sec_context</span><span class="o">.</span><span class="n">c</span><span class="o"></span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_acquire_cred</span><span class="o">.</span><span class="n">c</span><span class="o"></span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span></pre></div></div>
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lib/gssapi/class/mechglue/g_compare_name.c
lib/gssapi/class/mechglue/g_context_time.c
lib/gssapi/class/mechglue/g_delete_sec_context.c
lib/gssapi/class/mechglue/g_dsp_name.c
lib/gssapi/class/mechglue/g_dsp_status.c
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and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- kprop/kpropd_rpc.c
- kprop/kproplog.c
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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
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   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT: './',
    VERSION: '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
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    SOURCELINK_SUFFIX: '.txt'
};
</script>
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/**' and we don't want to change them.
    if line != '' and line != '-'
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*-' in lines[ln]:
        ln += 1

# Check filename comment if present.
m = re.match(r'^\* ([^ ]*)(- .*)? \*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
1.905 guava 27.0.1-jre

1.906 netflix-commons-util 0.3.0

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1.913 buffer-xor 1.0.3

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1.921 gmp 6.1.2+dfsg 4

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 */

1.927 jaxb-runtime 2.3.0

1.928 jackson-module-jaxb-annotations 2.8.11

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
   UCSD
   R. Canetti
   IBM
   February 1997

   HMAC: Keyed-Hashing for Message Authentication

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o MISC checker redesign
o Scheduler framework extension to support child process handling.
o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.
Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

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1.954 openssh 7.4p1-10+deb9u7

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H_
#define COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004

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#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
# undef WIFEXITED
# undef WIFSTOPPED
# undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#endif
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From 000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfe..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
 static grub_err_t
 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
   int argc __attribute__ ((unused)),
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to
immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a
GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---

From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.
---
grub-core/loader/i386/bsd.c | 8 ++++++++ 
include/grub/i386/netbsd_bootinfo.h | 7 ++++++
ChangeLog | 5 +++++
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
   return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+                      &grub_efi_system_table,
+                      sizeof (grub_efi_system_table));
+  if (err)
+    return err;
+#endif
+
+
struct bsd_tag *tag;
tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE	10
#define NETBSD_BTINFO_MODULES	11
#define NETBSD_BTINFO_FRAMEBUF	12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
  @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif
diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21  Stephane Rochoy <sheda>
+
+  + grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+  EFI system table.
+
+2014-06-21  Stephane Rochoy <sheda>

  * grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
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1.978 springfox-core 2.7.0

1.979 libjpeg-turbo 1.5.1-2

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1.979.2 Available under license:
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

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The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."
REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the “JFIF” conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The “official” archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don’t have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer’s free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn’t do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
The Independent JPEG Group's JPEG software

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*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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REFERENCES
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The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from

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the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
1.980 jackson-datatype-jsr310 2.8.11

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1.981 openstack4j 3.0.4

1.982 axis2-adb 1.6.2

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1.983 generex 1.0.1

1.984 libxi 1.1.3 2.1.el6

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1.985 ribbon-loadbalancer 2.3.0

1.986 util-linux 2.29.2-1+deb9u1
1.986.1 Available under license:

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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/NotificationListeningMessageProducer.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/AttributePollingMessageSource.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/OperationInvokingMessageHandler.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/OperationInvokingOutboundGatewayParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/NotificationListeningChannelAdapterParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/MBeanExporterHelper.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/DefaultNotificationMapper.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/JmxNamespaceHandler.java
1.1020 kernel-tools-libs 3.10.0 862.11.6.el7.1

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Ralph Metzler <rjkm@metzlerbros.de>
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Davor Emard <emard@softhome.net>
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Kenneth Aafly <ke-aa@frisurf.no>
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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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a) Accompany the work with the complete corresponding
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#endif __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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announcement including an appropriate copyright notice and a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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* 
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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * 10/6/97 - loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICSTAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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* 
* M. Welsh, 6 July 1996
* 
* 
*/

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Version 1.0

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## Description
* Ion.RangeSlider — cool, comfortable, responsive and easily customizable range slider
* Supports events and public methods, has flexible settings, can be completely altered with CSS
* Cross-browser: Google Chrome, Mozilla Firefox 3.6+, Opera 12+, Safari 5+, Internet Explorer 8+
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* With this plugin you will be able to build beautiful range sliders, like this:

![ion.rangeSlider](http://ionden.com/a/plugins/ion.rangeSlider/static/img/ion-range-slider.png)

## Key features
* Skin support. (5 skins included and PSD for skin creation)
* Any number of sliders at one page without conflicts and big performance problems
* Two slider types single (1 slider) and double (2 sliders)
* Support of negative and fractional values
* Ability to set custom step and snap grid to step
* Support of custom values diapason
* Customisable grid of values
* Ability to disable UI elements (min and max, current value, grid)
* Postfixes and prefixes for your numbers ($20, 20 € etc.)
* Additional postfix for maximum value (eg. $0 — $100<b>+</b>)
* Ability to prettify large numbers (eg. 10000000 -> 10 000 000 or 10.000.000)
* Slider writes its value right into input value field. This makes it easy to use in any html form
* Any slider value can be set through input data-attribute (eg. data-min="10")
* Slider supports disable param. You can set it true to make slider inactive
* Slider supports external methods (update, reset and remove) to control it after creation
* For advanced users slider has callbacks (onStart, onChange, onFinish, onUpdate). Slider pastes all its params to callback first argument as object
* Slider supports date and time

## Demos
* [Basic demo](http://ionden.com/a/plugins/ion.rangeSlider/demo.html)
* [Advanced demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_advanced.html)
* [Interactions demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_interactions.html)
## GitHub
* [GitHub page](https://github.com/IonDen/ion.rangeSlider)

## Update history

## Support

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### 1.1022 gson 2.8.5

### 1.1023 antisamy 1.5.8

### 1.1024 jersey-entity-filtering 2.25.1

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
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* M. Welsh, 6 July 1996

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

Thanks go to the following people for patches and contributions:

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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QLogic Linux iSCSI Driver

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

Section 6 as an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>  
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

<!- SECTION: Getting Started -->
<HEAD>
<TITLE>Software License Agreement</TITLE>
<LINK REL="STYLESHEET" TYPE="text/css" HREF="../cups-printable.css">
</HEAD>
<BODY>

<H1 CLASS="title">Software License Agreement</H1>


<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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</OL>

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1040 libunistring 0.9.6+really0.9.3-0.1

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---------------------------------------------------------------------------

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util
org.apache.tomcat:tomcat-util-scan
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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2006-Jan-27

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file
with no key entry. This happens with cacerts in Java 9+ because of
the changes in JEP 229, because both JKS and PKCS12 files can now
be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java
Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*
Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*
Changes: Removing Bouncy Castle classes and linking to the JAR instead.

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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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### 1.1057 byte-buddy 1.6.14

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2.2.4

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1.1062 spring-boot 2.2.4

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1.1064 xz 5.2.4 1

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1.1072 python-ipaddress 1.0.17-1

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1.1074 jetty-client 9.4.26.v20200117

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1075 ncurses 6.1+20181013 2+deb10u2
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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Files: aclocal.m4 package
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Files: doc/html/NCURSES-Programming-HOWTO.html
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Calling this script install-sh is preferred over install.sh, to prevent 'make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

-- vile: txtmode file-encoding=utf-8

1.1076 e2fsprogs 1.43.4 2+deb9u1
1.1076.1 Available under license :

# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<

$(BSD_LIB): $<
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$<

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Theodore Ts'o
23-June-2007

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/data/neo4j/package-info.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/session/RedisSessionProperties.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/session/JdbcSessionDataSourceInitializer.java

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1.1082 commons-fileupload 1.3.3

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1.1083 aop-alliance 6.5.0

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1.1086 jackson-dataformat-cbor 2.8.11

1.1087 string_decoder 1.1.1

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1.1088 asm-analysis 7.1

1.1089 react-is 16.11.0

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1.1090 mawk 1.3.3-17+b3

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1.1105 setimmediate 1.0.5

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 */

package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 */
public final class Primitives {

private Primitives() {}

/**
 * @author Kevin Bourrillion
 */
public static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

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public static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;
/** A map from wrapper types to their corresponding primitive types. */
private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

// Sad that we can't use a BiMap. :( 

static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>();
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>();
    add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
    add(primToWrap, wrapToPrim, byte.class, Byte.class);
    add(primToWrap, wrapToPrim, char.class, Character.class);
    add(primToWrap, wrapToPrim, double.class, Double.class);
    add(primToWrap, wrapToPrim, float.class, Float.class);
    add(primToWrap, wrapToPrim, int.class, Integer.class);
    add(primToWrap, wrapToPrim, long.class, Long.class);
    add(primToWrap, wrapToPrim, short.class, Short.class);
    add(primToWrap, wrapToPrim, void.class, Void.class);
    PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
    WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward, Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns true if type is one of the nine primitive-wraper types, such as Integer.
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey($Gson$Preconditions.checkNotNull(type));
}
* Returns the corresponding wrapper type of [@code type] if it is a primitive
* type; otherwise returns [@code type] itself. Idempotent.
* <pre>
*     wrap(int.class) == Integer.class
*     wrap(Integer.class) == Integer.class
*     wrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
* Returns the corresponding primitive type of [@code type] if it is a
* wrapper type; otherwise returns [@code type] itself. Idempotent.
* <pre>
*     unwrap(Integer.class) == int.class
*     unwrap(int.class) == int.class
*     unwrap(String.class) == String.class
* </pre>
*/
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}

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Version 2.0, January 2004

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for his contributions to the dvb-net driver

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(If you think you should be in this list, but you are not, drop a
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{
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            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

#endif

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QLogic Linux qlcnic NIC Driver

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Video4Linux interface and 2.1.x kernel adaptation

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bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*  
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*  
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M. Welsh, 6 July 1996

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1.1114 python-crypto 2.0.1 22.el6

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1.1116 jandex 2.0.5.Final

1.1117 paramiko 2.0.0-1

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1.1120 arraybuffer.slice 0.0.6

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var ab = (new Int8Array(5)).buffer;
var sliced = sliceBuffer(ab, 1, 3);
sliced = sliceBuffer(ab, 1);
```

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1.1125 exenv 1.2.2

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1.1126 okhttp 3.9.0

1.1127 six 1.10.0-3
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1.1129 dash 0.5.8 2.4

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1.1130 react-dom 16.11.0

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1.1139 systemd 241-7~deb10u4
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The current maintainer for this package is Laszlo Boszormenyi (GCS) <gcs@debian.org>.

Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>, Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>, Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.


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1.1151 vm-browserify 1.1.2

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1.1156 spring-boot-starter-actuator 1.5.18-RELEASE

1.1157 jackson-databind 2.9.9.2

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1158 spring-aop 4.3.14.RELEASE
1.1159 spring-cloud-sleuth-core 2.2.0

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1.1178 httpcomponents-client 4.5.9
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1.1190 jersey-media-json-jackson 2.25.1
1.1190.1 Available under license :

CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.1191 jetty-xml 9.4.26.v20200117
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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1.1196 debian-archive-keyring 2019.1

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JUnit

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1.1201 init-system-helpers 1.56+nmu1

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1.1202 angular-common 9.0.7

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1205 spel 4.1.5.RELEASE

1.1206 animate 3.5.1

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#Animate.css
*Just-add-water CSS animation*

`animate.css` is a bunch of cool, fun, and cross-browser animations for you to use in your projects. Great for emphasis, home pages, sliders, and general just-add-water-awesomeness.

## Basic Usage
1. Include the stylesheet on your document’s `<head>`

```
```html
<head>
  <link rel="stylesheet" href="animate.min.css">
</head>
```

2. Add the class `animated` to the element you want to animate.
   You may also want to include the class `infinite` for an infinite loop.

3. Finally you need to add one of the following classes:

* `bounce`
* `flash`
* `pulse`
* `rubberBand`
* `shake`
* `headShake`
* `swing`
* `tada`
* `wobble`
* `jello`
* `bounceIn`
* `bounceInDown`
* `bounceInLeft`
* `bounceInRight`
* `bounceInUp`
* `bounceOut`
* `bounceOutDown`
* `bounceOutLeft`
* `bounceOutRight`
---

### Usage

To use animate.css in your website, simply drop the stylesheet into your document's `<head>`, and add the class `animated` to an element, along with any of the animation names. That's it! You've got a CSS animated element. Super!

```html
<h1 class="animated infinite bounce">Example</h1>
```

[Check out all the animations here!](https://daneden.github.io/animate.css/)

You can do a whole bunch of other stuff with animate.css when you combine it with jQuery or add your own CSS rules. Dynamically add animations using jQuery with ease:

```javascript
$('#yourElement').addClass('animated bounceOutLeft');
```

You can also detect when an animation ends:

```javascript
$('#yourElement').one('webkitAnimationEnd mozAnimationEnd MSAnimationEnd oanimationend animationend', doSomething);
```

[View a video tutorial](https://www.youtube.com/watch?v=CBQGl6zokMs) on how to use Animate.css with jQuery.

---

* `slideInDown`
* `slideInLeft`
* `slideInRight`
* `slideInUp`
* `slideOutDown`
* `slideOutLeft`
* `slideOutRight`
* `slideOutUp`
**Note:** jQuery.one() is used when you want to execute the event handler at most *once*. More information [here](http://api.jquery.com/one/).

You can change the duration of your animations, add a delay or change the number of times that it plays:

```css
#yourElement {
  -vendor-animation-duration: 3s;
  -vendor-animation-delay: 2s;
  -vendor-animation-iteration-count: infinite;
}
```

*Note: be sure to replace ”vendor” in the CSS with the applicable vendor prefixes (webkit, moz, etc)*

## Custom Builds

Animate.css is powered by gulp.js([http://gulpjs.com/](http://gulpjs.com/)), and you can create custom builds pretty easily. First of all, you'll need Gulp and all other dependencies:

```
$ cd path/to/animate.css/
$ sudo npm install
```

Next, run `gulp` to compile your custom builds. For example, if you want only some of the `attention seekers`, simply edit the `animate-config.json` file to select only the animations you want to use.

```javascript
"attention_seekers": {
  "bounce": true,
  "flash": false,
  "pulse": false,
  "shake": true,
  "headShake": true,
  "swing": true,
  "tada": true,
  "wobble": true,
  "jello":true
}
```

## License

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## Contributing

Pull requests are the way to go here. I apologise in advance for the slow action on pull requests and issues. I only
have two rules for submitting a pull request: match the naming convention (camelCase, categorised [fades, bounces, etc]) and let us see a demo of submitted animations in a [pen](http://codepen.io). That last one is important.

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1.1207 jersey-multipart 1.17.1

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1.1224 Jackson-Annotations 2.9.8

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1.1225 Jersey-Client 1.19.1

1.1226 Stax-API 4.1

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core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleFromObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ObserverSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/AssertableSubscriberObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ActionSubscriber.java
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jar/rx/internal/operators/OnSubscribeFlattenIterable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/SchedulePeriodicHelper.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/InternalObservableUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
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In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableFromEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/CompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleEmitter.java
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libraries/source/browse/guava/src/com/google/common/annotations/Beta.java
*/

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFlatMapSingle.java

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core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ExceptionsUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriber.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduce.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
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jar/rx/internal/util/RxThreadFactory.java
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jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDoAfterTerminate.java
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jar/rx/internal/operators/OperatorSwitch.java
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jar/rx/internal/operators/OperatorWithLatestFrom.java
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jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
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jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSampleWithObservable.java
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jar/rx/internal/operators/OperatorOnBackpressureLatest.java
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jar/rx/internal/operators/OperatorEagerConcatMap.java
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jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
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jar/rx/internal/operators/OperatorSampleWithTime.java
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jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/functions/Actions.java
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arj/rx/internal/producers/SingleProducer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
arj/rx/internal/operators/BackpressureUtils.java
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arj/rx/internal/producers/ProducerArbiter.java
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arj/rx/internal/producers/SingleDelayedProducer.java
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arj/rx/internal/producers/QueuedValueProducer.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
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JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools
as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an
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 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 *
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* Author: Jim Fulton, MIT The Open Group

* Xlib Extension-Writing Utilities

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1242 spring-data-jpa 1.11.14.RELEASE

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Version: GnuPG v1.4.10 (GNU/Linux)
iQEetcBAEBAgAGBQJQ8B4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6JlRUKfJzAPzA2DfMfDz7ucdRL1RDovdz4VIF2+fbcKeBYQuZXfXieEghx+tKrK30M12guFkNLDeQ9h2p3Zu9JU3K0y4m841Dwq72HRmh1nRyD6lzZFhDGYD+69fFtgYG0fwEi00MAq/IRbsXcLPBOY+jYh/Xy+QRnQTcAQ+tAgOlxs3w+JSs2sGdesYLAJQacLeGh7EzD3F+CKUiwT4c5ub64LdXSIAYVj1u2OjZBfqLaJ3FA60Ti+i3knFNWKpzaeX+SQgMak6hsuatXi6EsVks6IaskwEgl6+xK+HYWy23ZQ8BKQRLKOZTw= =gAqN

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Apache Log4j API
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFEt1ZxHR/ESK2w6H8RAPbOAJ9c1eooNrl2oN59WZVitJExGjUvKgCfaKji
6etD76AUj0jTuSl59hUsWMQ=
=HmqH
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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgag9Frj/ClrIRAmuJAKCFgi4W0UOH8IUn+sV6PBHRF3BnLgCcDqqCZoktk0bTHfwaa5TtxQbScw=
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<table>
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<th>Name</th>
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<td>12 September 2006</td>
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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That's all there is to it!

inotify cron system

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1.1252 xmltooling 1.4.6

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1282 servlet-api 2.3

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package javax.servlet.jsp.tagext;

import java.io.Reader;
import java.io.Writer;
import java.io.IOException;
import javax.servlet.jsp.*;

/**
* A JspWriter subclass that can be used to process body evaluations
* so they can re-extracted later on.
*/

public abstract class BodyContent extends JspWriter {
protected BodyContent(JspWriter e) {
    super(UNBOUNDED_BUFFER, false);
    this.enclosingWriter = e;
}

/**
 * Redefine flush().
 * It is not valid to flush.
 */

class void flush() throws IOException {
    throw new IOException("Illegal to flush within a custom tag");
}

/**
 * Clear the body.
 */

class void clearBody() {
    try {
        this.clear;
    } catch (IOException ex) {
        // TODO -- clean this one up.
        throw new Error("internal error!");
    }
}

/**
 * Return the value of this BodyContent as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of this BodyContent as a Reader
 */
class abstract Reader getReader();

/**
 * Return the value of the BodyContent as a String.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of the BodyContent as a String
 */
public abstract String getString();

/**
 * Write the contents of this BodyContent into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 * @param out The writer into which to place the contents of
 * this body evaluation
 */

public abstract void writeOut(Writer out) throws IOException;

/**
 * Get the enclosing JspWriter
 * @returns the enclosing JspWriter passed at construction time
 */

public JspWriter getEnclosingWriter() {
    return enclosingWriter;
}

/**
 * private fields
 */

private JspWriter enclosingWriter;

1.1283 javax-websocket-server-impl
9.4.12.v20180830
1.1283.1 Available under license :

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjJACgrvjM
C/W/GuQFFcJJykkl2j9d9/Ag=
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iD8DBQFQFiQVhIlu49dGQRAMJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFyLBDVaadibJ1vIEHY901kPceg=
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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iD8DBQFEaStXR9WPTEwnLARAJjsNAJ4jBB6wCEequcFljGge7yrAMSrFv/gCgoMC+
5hdry6ZjXRcUlhQEyNz2F/T4=
=I4Co

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cddf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
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Jackson is a high-performance, Free/Open Source JSON processing library.
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1.1298 to-array 0.1.4

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1.1299 spring-cloud-vault-config 2.2.0
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1.1300 spring-cloud-starter-stream-kafka

3.0.0

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src/topology/text.c | 17 ++++++++++++++++    
10 files changed, 90 insertions(+), 80 deletions(-)

diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@
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        Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/channel.c b/src/topology/channel.c
index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>
diff --git a/src/topology/ctl.c b/src/topology/ctl.c
index 907a97f..1da3d18 100644
--- a/src/topology/ctl.c
+++ b/src/topology/ctl.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/dapm.c b/src/topology/dapm.c
index 8c585a7..eef72bb 100644
--- a/src/topology/dapm.c
+++ b/src/topology/dapm.c
@@ -2,14 +2,15 @@
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index 0d5c430..e2aa38c 100644
--- a/src/topology/data.c
+++ b/src/topology/data.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@

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index 303fbeb..cba6887 100644
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1.1311 jaxb-core 2.3.0

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1.1316 iconv 2.28

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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TERM AND CONDITIONS

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
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1.1320 select 1.1.2

1.1321 libsemanage 2.6-2

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eb27

1.1322 spring-boot-starter 1.5.18.RELEASE

1.1323 jackson-dataformat-yaml 2.8.11
1.1323.1 Available under license:
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1.1324 jetty-http 9.4.26.v20200117

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1.1326 snake-yaml 1.17

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src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png
src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
src/manual/en_US/favicon.png
src/manual/en_US/figures/model2sketch.png
src/manual/en_US/figures/overview.png
src/manual/en_US/figures/tree.png
src/manual/en_US/logo.png
src/manual/zh_CN/favicon.png
src/manual/zh_CN/figures/model2sketch.png
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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^L

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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    b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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1.1332 python-configobj 4.6.0 3.el6

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1355 velocity 1.7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1362 oclazyload 1.1.0

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1375 asm-util 5.0.3

1.1376 springfox-swagger-common 2.7.0

1.1377 jackson-jaxrs-json-provider 2.8.9
1.1377.1 Available under license:

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1378 stax-ex 1.8

1.1379 spring-plugin-core 1.2.0.RELEASE

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1.1380 websocket-api 9.4.12.v20180830

1.1381 reflectasm 1.11.3

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1.1382 hibernate-validator-annotation-processor 5.3.6

1.1383 angular-compiler 9.0.7
1.1383.1 Available under license:

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1.1386 global 4.4.0
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*/opt/ws_local/PERMITS_SQL/1047774556_1590612060.18/0/vdom-virtualize-2-0-0-1-tgz/package/index.js

1.1388 wsdl4j 1.6.2

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- converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>

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- initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>

- Initial implementation of the light weight Null block cipher.</li>

- converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>

- fix defect in DERBMPString.equals().</li>

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Michael Hausler &lt;haeusler@064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@064agemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem@064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt:mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.

Tom Cargill &lt;cargill@064profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;ncsendoni@064babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skyttä &lt;ville.skytta@064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointer exception in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley@064savsvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amoliner@064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signs, initial updates for supporting repeated attributes in CMS.

Javi Delgado &lt;ja@064jav.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;joni.hahkala@064cren.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IfetAttrSytax, and ObjectDigestInfo. We also wish to thank the [a href="http://www.eu-egee.org"]EGEE project[/a] for making the work available.

Rolf Schillinger &lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy@064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamakawa &lt;ymmk@064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex@064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer &lt;soren.hilmer#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterno#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov#064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo#064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;paulvas#064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix#credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5#embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;t2cung#hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee#064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke#064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESeede-CMAC to JCE provider.

David Josse &lt;david.josse#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.
<li>Kishimoto Kazuhiko &lt;kazu-k&#064ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan &lt;lwnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christianat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, &lt;olaf.keller.bc#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>Jouml:rg Eichhorn &lt;j.eichhorn&#064#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz &lt;carlos#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLOutputStream.</li>
<li>John Alfred Prufrock &lt;j.a.prufrock#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;sneusatz#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice &lt;marzio.logiudice#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold &lt;georg.lippold#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles &lt;chris_viles#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen &lt;Pasi.Eronen#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;maria.ivanova#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;berling &lt;arminha#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch &lt;xavier#064brittanysoftware.com&gt; - general code clean ups.
Erik Tews &lt;e_tews@cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;roloquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@#064rtnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käthler &lt;olga.kaethler@#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

Núria Marí &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Mike StJohns &lt;stjohns@#064comcast.net&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;stjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt; julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;tpknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;tgwozdziu@#064rpm.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@#064jrnm.ee.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in
response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaynd@#064lemaynd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@#064Freesign.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael@#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañaga &lt;ilarra@#064s21sec.com&gt; - fix to default partial packet generation in BCPOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@#064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;ru@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@#064fitzpatrick.cc&gt; - error message fix to X509LDACertificateStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@#064yahoo.com&gt; - datahandler patch for attached parts in S/MIME signatures.</li>
<li>Pedro Henriquees &lt;pmahenriques@#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME APL.</li>
<li>Richard Farr &lt;farr.se@#064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@#064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@#064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@#064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@#064gm.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrsrawat@#064yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindemann@#064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alextart.home@#064gmail.com&gt; - name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@#064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole@#064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom@#064atack.cz&gt; - added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@#064t-online.de&gt; - correction of field error in getResponse method in
CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilåhrings &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;m.smith@064cbnc0.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;bob.mcgowan@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;martin@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski@064gdzic.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064gmail.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking@064keynecis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil-steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective
coordinates for EC.

Andy Neilson &lt;andy.neilson#064quest.com&gt; - a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; - patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#064WPECGLtYbVi8RI6Y7Vzi2Lvd2EUVW99v3yNV31WROG8.fms&gt; - speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; - patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; - initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b#064yahoo.com&gt; - Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc#064carlstrom.com&gt; - compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel#primekey.se&gt; - patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#certimix.com&gt; - pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; - patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; - patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; - patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d#064gmail.com&gt; - initial cut of DVCS classes.

Damian Kolas &lt;fatfredy#064gmail.com&gt; - ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; - patches for supporting PGP SecretKeyRing/PGP SecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; - patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; - initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio#064mathics.fi&gt; - tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi#064akamai.com&gt; - fixes to OpenPGP NotationData to prevent truncation problems.

Eric M#uuuml;ller &lt;eric.mueller#064sage.de&gt; - additional standard algorithm name lookups in JcaPEMKeyConverter.
<li>Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
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<li>lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot&lt;https://github.com/thomas.belot+BC&amp;#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Richard DiCroce&lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Björn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schummann&lt;https://github.com/dschaummann&gt; method for returning signatures/verifications without user IDs on PGP PublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Tobias Wagner &lt;tobias.wagner#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette&lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot&lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle#064lxteme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles#064opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran&lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat#064gmail.com&gt; Fixed bugs in TlsUtils read methods [BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPOrobjectFactory to handle stream packets at start of iterated data.</li>
<li>Andréacuté Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jarosowski&lt;https://github.com/slawekjarosowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev&lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77#064gmail.com&gt; Fixed bug in Poly1305 [BJA-620].</li>
<li>jdvorak001&lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele &lt;jnaegle#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre&lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storoj72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evanghelos Karatsiolis &lt;ekaratsiolis&#06464mg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
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<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSPublicKey.
<li>Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt;: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu#064gmail.com&gt;: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt;: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt;: initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt;: initial version of RFC 4998 ASN.1 classes.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt;: JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;: corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt;: improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt;: performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt;: improved JSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt;: Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atouilme&gt;: Initial implementation of EthereumIESEngine.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt;: Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palm&amp;eacute;r, TrueSec &lt;Henrik.Palmer#064truesec.se&gt;: Additional improvements to constant time comparisons.</li>
<li>Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt;: Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt;: Addition generic support for CMS/TSP functions.</li>
<li>gaelalalire &lt;https://github.com/gaelalalire&gt;: Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/aphuang2013&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt;: Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekw &lt;https://github.com/Xor-el&gt;: Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt;: addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt;: update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt;: Initial ChaCha20Poly1305 prototype.
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1.1407 debianutils 4.8.1.1

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1.1408 kerberos 1.17-3

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

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   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if is_license:
            text_seen = True
    return text_seen

# Check comment boilerplate violations.
check_comment(comment, 'example', 1, False, False)
is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with /*- and we don’t want to change them.
if line != "" and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\r*\*/*\*/*\*/*\*/*', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != ":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith("/"):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- gssapi/gssapi.c
- mechglue/gssapi_err_generic.c
- mechglue/g_acquire_cred.c
- mechglue/g_accept_sec_context.c
- mechglue/g_canon_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.c
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/krb5/error_tables/kdb5_err.et
- kprop/kpropd_rpc.c
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1.1412 mchange-commons-java-library 0.2.3.4

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1.1413 jackson-module-jaxb-annotations 2.9.8

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1.1414 spring-boot-autoconfigure

1.2.2.RELEASE

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package org.springframework.boot.autoconfigure.template;

import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.AbstractTemplateViewResolver;

/**
 * Base class for `@link ConfigurationProperties` of a
 * `@link AbstractTemplateViewResolver`.
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public abstract class AbstractTemplateViewResolverProperties extends
    AbstractViewResolverProperties {

  /**
   * Prefix that gets prepended to view names when building a URL.
   */
  private String prefix;

  /**
   * Suffix that gets appended to view names when building a URL.
   */
  private String suffix;

  /**
   * Name of the RequestContext attribute for all views.
   */
  private String requestContextAttribute;

  /**
   * Set whether all request attributes should be added to the model prior to merging
   * with the template.
   */
  private boolean exposeRequestAttributes = false;

  /**
   * Set whether all HttpSession attributes should be added to the model prior to
   * merging with the template.
   */
  private boolean exposeSessionAttributes = false;

  /**
   * Set whether HttpServletRequest attributes are allowed to override (hide) controller
private boolean allowRequestOverride = false;

private boolean exposeSpringMacroHelpers = true;

protected AbstractTemplateViewResolverProperties(String defaultPrefix,
        String defaultSuffix) {
    this.prefix = defaultPrefix;
    this.suffix = defaultSuffix;
}

public String getPrefix() {
    return this.prefix;
}

public void setPrefix(String prefix) {
    this.prefix = prefix;
}

public String getSuffix() {
    return this.suffix;
}

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public String getRequestContextAttribute() {
    return this.requestContextAttribute;
}

public void setRequestContextAttribute(String requestContextAttribute) {
    this.requestContextAttribute = requestContextAttribute;
}

public boolean isExposeRequestAttributes() {
    return this.exposeRequestAttributes;
}

public void setExposeRequestAttributes(boolean exposeRequestAttributes) {
    this.exposeRequestAttributes = exposeRequestAttributes;
}
public boolean isExposeSessionAttributes() {
    return this.exposeSessionAttributes;
}

public void setExposeSessionAttributes(boolean exposeSessionAttributes) {
    this.exposeSessionAttributes = exposeSessionAttributes;
}

public boolean isAllowRequestOverride() {
    return this.allowRequestOverride;
}

public void setAllowRequestOverride(boolean allowRequestOverride) {
    this.allowRequestOverride = allowRequestOverride;
}

public boolean isExposeSpringMacroHelpers() {
    return this.exposeSpringMacroHelpers;
}

public void setExposeSpringMacroHelpers(boolean exposeSpringMacroHelpers) {
    this.exposeSpringMacroHelpers = exposeSpringMacroHelpers;
}

/**
 * Apply the given properties to a AbstractTemplateViewResolver. Use Object in
 * signature to avoid runtime dependency on MVC, which means that the template engine
 * can be used in a non-web application.
 *
 * @param viewResolver the resolver to apply the properties to.
 */
public void applyToViewResolver(Object viewResolver) {

    Assert.isInstanceOf(AbstractTemplateViewResolver.class, viewResolver,
    "ViewResolver is not an instance of AbstractTemplateViewResolver : "+ viewResolver);
    AbstractTemplateViewResolver resolver = (AbstractTemplateViewResolver) viewResolver;
    resolver.setPrefix(getPrefix());
    resolver.setSuffix(getSuffix());
    resolver.setCache(isCache());
    resolver.setContentType(getContentType());
    resolver.setViewNames(getViewNames());
    resolver.setExposeRequestAttributes(isExposeRequestAttributes());
    resolver.setAllowRequestOverride(isAllowRequestOverride());
    resolver.setExposeSessionAttributes(isExposeSessionAttributes());
    resolver.setExposeSpringMacroHelpers(isExposeSpringMacroHelpers());
    resolver.setRequestContextAttribute(getRequestContextAttribute());
    // The resolver usually acts as a fallback resolver (e.g. like a
// InternalResourceViewResolver) so it needs to have low precedence
resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 5);

}
}

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 */

package org.springframework.boot.autoconfigure.web;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for JSP
 * view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class JspTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.jasper.compiler.JspConfig", classLoader)) {
            String prefix = environment.getProperty("spring.view.prefix",
                    WebMvcAutoConfiguration.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.view.suffix",
                    WebMvcAutoConfiguration.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }

    }

}
return false;
}

}

/

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package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;
import groovy.text.markup.TemplateConfiguration;
import groovy.text.markup.TemplateResolver;

import java.io.IOException;
import java.net.URL;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
 * A custom {@link groovy.text.markup.TemplateResolver template resolver} which resolves
 * templates using the locale found in the thread locale. This resolver ignores the
 * template engine configuration locale.
 *
 * @author Cédric Champeau
 * @since 1.1.0
 * @deprecated since 1.2 in favor of Spring 4.1's {link GroovyMarkupViewResolver} and
 * {link GroovyMarkupConfigurer}.
 */
@Deprecated
public class GroovyTemplateResolver implements TemplateResolver {

private ClassLoader templateClassLoader;

@Override
public boolean supportsTemplateMimeType(String template) {
    return false;
}

}}}
public void configure(final ClassLoader templateClassLoader,  
final TemplateConfiguration configuration) {
this.templateClassLoader = templateClassLoader;
}

@Override
public URL resolveTemplate(final String templatePath) throws IOException {
.parse(templatePath);
URL resource = this.templateClassLoader.getResource(templateResource.withLocale(
LocaleContextHolder.getLocale().toString().replace("-", ".")).toString());
if (resource == null) {
// no resource found with the default locale, try without any locale
resource = this.templateClassLoader.getResource(templateResource.withLocale(
null).toString());
}
if (resource == null) {
throw new IOException("Unable to load template:" + templatePath);
}
return resource;
}

package org.springframework.boot.autoconfigure.mustache;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

package org.springframework.boot.autoconfigure.mustache;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

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package org.springframework.boot.autoconfigure.mustache;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * @link TemplateAvailabilityProvider} that provides availability information for
package org.springframework.boot.autoconfigure.template;

import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;

/**
 * Indicates the availability of view templates for a particular templating engine such as
 * FreeMarker or Thymeleaf
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class MustacheTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("com.samskivert.mustache.Template", classLoader)) {
            String prefix = environment.getProperty("spring.mustache.prefix", MustacheProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.mustache.suffix", MustacheProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

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 */
public interface TemplateAvailabilityProvider {

/**
 * Returns {code true} if a template is available for the given {code view}.
 * @param view the view name
 * @param environment the environment
 * @param classLoader the class loader
 * @param resourceLoader the resource loader
 * @return if the template is available
 */
 boolean isTemplateAvailable(String view, Environment environment,
 ClassLoader classLoader, ResourceLoader resourceLoader);
}

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package org.springframework.boot.autoconfigure.thymeleaf;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {code TemplateAvailabilityProvider} that provides availability information for
 * Thymeleaf view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class ThymeleafTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

}
@Override
public boolean isTemplateAvailable(String view, Environment environment,
ClassLoader classLoader, ResourceLoader resourceLoader) {
if (ClassUtils.isPresent("org.thymeleaf.spring4.SpringTemplateEngine",
classLoader)) {
String prefix = environment.getProperty("spring.thymeleaf.prefix",
ThymeleafProperties.DEFAULT_PREFIX);
String suffix = environment.getProperty("spring.thymeleaf.suffix",
ThymeleafProperties.DEFAULT_SUFFIX);
return resourceLoader.getResource(prefix + view + suffix).exists();
}
return false;
}

package org.springframework.boot.autoconfigure.groovy.template;

import java.util.HashMap;
import java.util.Map;
import org.springframework.boot.autoconfigure.template.AbstractViewResolverProperties;
import org.springframework.boot.context.properties.ConfigurationProperties;

/**
* {@link ConfigurationProperties} for configuring Groovy templates.
*
* @author Dave Syer
* @since 1.1.0
*/
@ConfigurationProperties(prefix = "spring.groovy.template", ignoreUnknownFields = false)
public class GroovyTemplateProperties extends AbstractViewResolverProperties {

/**
* [ConfigurationProperties] for configuring Groovy templates.
* 
* @author Dave Syer
* @since 1.1.0
*/
@ConfigurationProperties(prefix = "spring.groovy.template", ignoreUnknownFields = false)
public class GroovyTemplateProperties extends AbstractViewResolverProperties {
public static final String DEFAULT_PREFIX = "classpath:/templates/";

public static final String DEFAULT_SUFFIX = ".tpl";

/**
 * Prefix that gets prepended to view names when building a URL.
 */
private String prefix = DEFAULT_PREFIX;

/**
 * Suffix that gets appended to view names when building a URL.
 */
private String suffix = DEFAULT_SUFFIX;

/**
 * Configuration to pass to TemplateConfiguration.
 */
private Map<String, Object> configuration = new HashMap<String, Object>();

public String getPrefix() {
    return this.prefix;
}

public void setPrefix(String prefix) {
    this.prefix = prefix;
}

public String getSuffix() {
    return this.suffix;
}

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public void setConfiguration(Map<String, Object> configuration) {
    this.configuration = configuration;
}

public Map<String, Object> getConfiguration() {
    return this.configuration;
}

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 */
package org.springframework.boot.autoconfigure.template;

import java.io.IOException;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.util.Assert;

/**
 * Contains a location that templates can be loaded from.
 *
 * @author Phillip Webb
 * @since 1.2.1
 */
public class TemplateLocation {

private final String path;

public TemplateLocation(String path) {
    Assert.notNull(path, "Path must not be null");
    this.path = path;
}

/**
 * Determine if this template location exists using the specified
 * {@link ResourcePatternResolver}.  
 * @param resolver the resolver used to test if the location exists
 * @return {@code true} if the location exists.
 */
public boolean exists(ResourcePatternResolver resolver) {
    Assert.notNull(resolver, "Resolver must not be null");
    if (resolver.getResource(this.path).exists()) {
        return true;
    }
}
}

try {

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*/
if (anyExists(resolver)) {
    return true;
}
}  
catch (IOException ex) {
}  
return false;
}

private boolean anyExists(ResourcePatternResolver resolver) throws IOException {
    String searchPath = this.path;
    if (searchPath.startsWith(ResourceLoader.CLASSPATH_URL_PREFIX)) {
        searchPath = ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX
        + searchPath.substring(ResourceLoader.CLASSPATH_URL_PREFIX.length());
    }
    if (searchPath.startsWith(ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX)) {
        Resource[] resources = resolver.getResources(searchPath);
        for (Resource resource : resources) {
            if (resource.exists()) {
                return true;
            }
        }
    }
    return false;
}

@Override
public String toString() {
    return this.path;
}

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 */
package org.springframework.boot.autoconfigure.freemarker;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * <b>TemplateAvailabilityProvider</b> that provides availability information for
 * FreeMarker view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class FreeMarkerTemplateAvailabilityProvider implements
    TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("freemarker.template.Configuration", classLoader)) {
            String loaderPath = environment.getProperty("spring.freemarker.path",
                FreeMarkerProperties.DEFAULT_TEMPLATE_LOADER_PATH);
            String prefix = environment.getProperty("spring.freemarker.prefix",
                FreeMarkerProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.freemarker.suffix",
                FreeMarkerProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(loaderPath + prefix + view + suffix)
                .exists();
        }
        return false;
    }

    }/**
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package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;

import java.security.CodeSource;
import java.security.ProtectionDomain;

import javax.annotation.PostConstruct;
import javax.servlet.Servlet;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.autoconfigure.AutoConfigureAfter;
import org.springframework.boot.autoconfigure.condition.ConditionalOnClass;
import org.springframework.boot.autoconfigure.condition.ConditionalOnMissingBean;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.boot.autoconfigure.condition.ConditionalOnWebApplication;
import org.springframework.boot.autoconfigure.template.TemplateLocation;
import org.springframework.boot.autoconfigure.web.WebMvcAutoConfiguration;
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.boot.context.properties.EnableConfigurationProperties;
import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.UrlBasedViewResolver;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfig;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
 * Autoconfiguration support for Groovy templates in MVC. By default creates a
 * MarkupTemplateEngine configured from GroovyTemplateProperties, but you
 * can override that by providing your own GroovyMarkupConfigurer or even a
 * MarkupTemplateEngine of a different type.
 *
 * @author Dave Syer
 * @author Andy Wilkinson
 * @author Brian Clozel
 * @since 1.1.0
 */
@Configuration
@ConditionalOnClass(MarkupTemplateEngine.class)
@AutoConfigureAfter(WebMvcAutoConfiguration.class)
@EnableConfigurationProperties(GroovyTemplateProperties.class)
public class GroovyTemplateAutoConfiguration {

    @Configuration
    @ConditionalOnClass(GroovyMarkupConfigurer.class)
    public static class GroovyMarkupConfiguration {

        @Autowired
        private ApplicationContext applicationContext;

        @Autowired
        private GroovyTemplateProperties properties;

        @Autowired(required = false)
        private MarkupTemplateEngine templateEngine;

        @PostConstruct
        public void checkTemplateLocationExists() {
            if (this.properties.isCheckTemplateLocation() && !isUsingGroovyAllJar()) {
                TemplateLocation location = new TemplateLocation(
                        this.properties.getPrefix());
                Assert.state(location.exists(this.applicationContext),
                        "Cannot find template location: " + location + "+ template"
                        + " (please add some templates, check your Groovy "
                        + "configuration, or set spring.groovy.template."
                        + "check-template-location=false")
                        )
            }
        }

    } /*
    * MarkupTemplateEngine could be loaded from groovy-templates or groovy-all.
    * Unfortunately it's quite common for people to use groovy-all and not actually
    * need templating support. This method check attempts to check the source jar so
    * that we can skip the { @code /template } folder check for such cases.
    * @return true if the groovy-all jar is used
    */
    private boolean isUsingGroovyAllJar() {
        try {
            ProtectionDomain domain = MarkupTemplateEngine.class
            .getProtectionDomain();
            CodeSource codeSource = domain.getCodeSource();
            if (codeSource != null
            && codeSource.getLocation().toString().contains("-all")) {
                return true;
            }
        } catch (Exception ex) {
        }
        return false;
    }
@Configuration
@ConfigurationProperties(prefix = "spring.groovy.template.configuration")
@ConditionalOnWebApplication(
@ConditionalOnMissingBean(GroovyMarkupConfig.class)
@ConditionalOnClass({ Servlet.class, LocaleContextHolder.class, UrlBasedViewResolver.class })
public GroovyMarkupConfigurer groovyMarkupConfigurer() {
    GroovyMarkupConfigurer configurer = new GroovyMarkupConfigurer();
    configurer.setResourceLoaderPath(this.properties.getPrefix());
    configurer.setCacheTemplates(this.properties.isCache());
    if (this.templateEngine != null) {
        configurer.setTemplateEngine(this.templateEngine);
    }
    return configurer;
}

@Configuration
@ConfigurationProperties(prefix = "spring.groovy.template.configuration")
@ConditionalOnWebApplication
@ConditionalOnMissingBean(name = "groovyMarkupViewResolver")
public GroovyMarkupViewResolver groovyMarkupViewResolver() {
    GroovyMarkupViewResolver resolver = new GroovyMarkupViewResolver();
    configureViewResolver(resolver);
    return resolver;
}

private void configureViewResolver(UrlBasedViewResolver resolver) {
    resolver.setSuffix(this.properties.getSuffix());
    resolver.setCache(this.properties.isCache());
    resolver.setContentType(this.properties.getContentType());
    resolver.setViewNames(this.properties.getViewNames());
    resolver.setRequestContextAttribute("spring");
    // This resolver acts as a fallback resolver (e.g. like a
    // InternalResourceViewResolver) so it needs to have low precedence
    resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 6);
}

package org.springframework.boot.autoconfigure.velocity;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Velocity view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class VelocityTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.velocity.app.VelocityEngine", classLoader)) {
            String loaderPath = environment.getProperty("spring.velocity.resourceLoaderPath",
                    VelocityProperties.DEFAULT_RESOURCE_LOADER_PATH);
            String prefix = environment.getProperty("spring.velocity.prefix",
                    VelocityProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.velocity.suffix",
                    VelocityProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(loaderPath + prefix + view + suffix)
                    .exists();
        }
        return false;
    }
package org.springframework.boot.autoconfigure.groovy.template;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for Groovy
 * view templates
 *
 * @author Dave Syer
 * @since 1.1.0
 */

public class GroovyTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("groovy.text.TemplateEngine", classLoader)) {
            String prefix = environment.getProperty("spring.groovy.template.prefix",
                    GroovyTemplateProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.groovy.template.suffix",
                    GroovyTemplateProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

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 */
package org.springframework.boot.autoconfigure.mustache;

import java.io.InputStreamReader;
import java.io.Reader;
import org.springframework.context.ResourceLoaderAware;
import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import com.samskivert.mustache.Mustache;
import com.samskivert.mustache.Mustache.TemplateLoader;

/**<br> * Mustache TemplateLoader implementation that uses a prefix, suffix and the Spring<br> * Resource abstraction to load a template from a file, classpath, URL etc. A<br> * TemplateLoader is needed in the Compiler when you want to render partials (i.e.<br> * tiles-like features).<br> *<br> * @author Dave Syer<br> * @since 1.2.2<br> * @see Mustache<br> * @see Resource<br> */
public class MustacheResourceTemplateLoader implements TemplateLoader,
ResourceLoaderAware {

    private String prefix = "";

    private String suffix = "";
private String charSet = "UTF-8";

private ResourceLoader resourceLoader = new DefaultResourceLoader();

public MustacheResourceTemplateLoader() {
}

public MustacheResourceTemplateLoader(String prefix, String suffix) {
    super();
    this.prefix = prefix;
    this.suffix = suffix;
}

/**
 * @param charSet the charSet to set
 */
public void setCharset(String charSet) {
    this.charSet = charSet;
}

/**
 * @param resourceLoader the resourceLoader to set
 */
@Override
public void setResourceLoader(ResourceLoader resourceLoader) {
    this.resourceLoader = resourceLoader;
}

@Override
public Reader getTemplate(String name) throws Exception {
    return new InputStreamReader(this.resourceLoader.getResource(
            this.prefix + name + this.suffix).getInputStream(), this.charSet);
}

}
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file-management (3.0.0)

* License: Apache-2.0

  * Project: https://maven.apache.org/shared/file-management/

  * Source:
    https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

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maven-compat (3.5.2)

* License: Apache-2.0

  * Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
  * Source:
    https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-impl (1.1.1)

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maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
  * Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
  * Source:
    https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)
* License: Apache-2.0

maven-settings (3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

* License: Apache-2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
* Project: https://maven.apache.org/wagon/
* Source:

xz for java (1.8)

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1.1421 websocket-servlet 9.4.26.v20200117

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1432 gtk 2.24.23

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Version 2, June 1991

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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<signature of Ty Coon>, 1 April 1990
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- the GNU.Gettext.dll C# library,
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when it starts in an interactive mode:

@example
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end example

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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1464 libxi 1.7.9-1
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1.1466 redux-thunk 2.3.0
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Version:  5.0

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Javassist version 3

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1.1480 xorg-x11-font-utils 7.2 11.el6

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1.1483 iwl100-firmware 39.31.5.1 1.el6

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

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1.1496 spring-test 5.2.3

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* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/web/WebAppConfiguration.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/event/TestContextEvent.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/event/TestExecutionListener.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/client/MockRestServiceServer.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/servlet/MockMultipartHttpServletRequestDsl.kt
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/servlet/result/XpathResultMatchers.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/servlet/result/ContentResultMatchers.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/mock/web/MockHttpServletRequest.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/support/AbstractContextLoader.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/context/annotation/AfterTestClass.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/jdbc/Sql.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/web/reactive/server/XpathAssertions.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/annotation/IfProfileValue.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/event/AfterTestClassEvent.java
* /opt/ws_local/PERMITS_SQL/1033212718_1519432933.35/0/spring-test-5-2-3-release-sources-
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 */
/**
 * Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
 * to a single Object, see [KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for
 * more details.
 *
 *@since 5.0.6
 */

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* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/repeat/support/ResultQueue.java
* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/item/ItemWriterException.java
* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/repeat/support/ResultQueue.java
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* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/item/support/builder/ScriptItemProcessorBuilder.java
* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/item/amqp/builder/AmqpItemWriterBuilder.java

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* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/item/database/builder/StoredProcedureItemReaderBuilder.java
* /opt/ws_local/PERMITS_SQL/1025042826_1593082483.37/0/spring-batch-infrastructure-4-2-1-release-sources-jar/org/springframework/batch/item/database/builder/HibernateCursorItemReaderBuilder.java
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1.1511 zlib 1.2.8

1.1511.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.1513 reactor-extra 3.3.2

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*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/AbstractRetry.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/Retry.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/DefaultContext.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/IterationContext.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/RetryExhaustedException.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/BackoffDelay.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/RepeatContext.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MathFlux.java
*/opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/RetryContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/DefaultRetry.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/DefaultRepeat.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/Repeat.java
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  jar/reactor/function/Function6.java
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  jar/reactor/function/Predicate4.java
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  jar/reactor/math/MathSubscriber.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Function3.java
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  jar/reactor/function/Predicate3.java
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  jar/reactor/function/Predicate7.java
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  jar/reactor/function/Consumer6.java
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jar/reactor/function/Predicate8.java
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jar/reactor/swing/SwtScheduler.java
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jar/reactor/function/Function7.java
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

gov.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Perks contains the Go package quantile that computes approximate quantiles over an unbounded data stream within low memory and CPU bounds.

For more information and examples, see:
http://godoc.org/github.com/bmizerany/perks

A very special thank you and shout out to Graham Cormode (Rutgers University), Flip Korn (AT&T LabsâResearch), S. Muthukrishnan (Rutgers University), and Divesh Srivastava (AT&T LabsâResearch) for their research and publication of [Effective Computation of Biased Quantiles over Data Streams](http://www.cs.rutgers.edu/~muthu/bquant.pdf)

Thank you, also:
* Armon Dadgar (@armon)
* Andrew Gerrand (@nf)
* Brad Fitzpatrick (@bradfitz)
* Keith Rarick (@kr)

FAQ:

Q: Why not move the quantile package into the project root?
A: I want to add more packages to perks later.

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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The actual classes of The Simple API for CSS (SAC) came from:
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