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1.4 gitdb 4.0.5

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1.5 backports-abc 0.5

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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1.16 memoize-one 5.2.1

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1.40 react-loading-overlay 1.0.1

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1.51 jsoneditor-react 3.1.2

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1.52 python-crontab 2.7.1

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1.53 supervisor 4.2.5

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1.54 future 0.18.3

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1.55 crashtest 0.4.1

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1.57 installer 0.7.0

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1.61 robotframework-archivelibrary 0.4.2

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* <http://github.com/jquery/jquery-tmpl>

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1.65 types-react-dom 16.9.19

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1.66 openapi-schema-validator 0.6.0

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1.69 fasteners 0.19

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1.70 pydantic 1.10.13

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1.71 react-draggable 4.4.6

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1.72 react-redux 8.1.3

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1.73 immer 9.0.21

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1.74 jquery 3.7.1

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1.75 @tanstack/react-query-devtools 4.36.1

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1.76 @tanstack/react-query 4.36.1

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1.77 html5lib 1.1

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1.78 psutil 5.9.5

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Execute tests on *BSD platforms. Does not produce wheels.

Useful URLs:

<https://github.com/vmactions/freebsd-vm>

<https://github.com/vmactions/openbsd-vm>

<https://github.com/vmactions/netbsd-vm>

on: [push, pull_request]

name: bsd-tests

concurrency:

group: \${{ github.ref }}-\${{ github.workflow }}-\${{ github.event_name }}-\${{ github.ref ==
format('refs/heads/{0}', github.event.repository.default_branch) && github.sha || " "}}

cancel-in-progress: true

jobs:

freebsd:

runs-on: macos-12

steps:

- uses: actions/checkout@v3

- name: Run tests

uses: vmactions/freebsd-vm@v0

with:

usesh: true

prepare: |

pkg install -y gcc python3

run: |

set -e -x

make install-pip

python3 -m pip install --user setuptools

make install

make test

make test-memleaks

openbsd:

runs-on: macos-12

steps:

- uses: actions/checkout@v3

- name: Run tests

uses: vmactions/openbsd-vm@v0

with:

usesh: true

prepare: |

set -e

pkg_add gcc python3

run: |

set -e

```
    make install-pip
    python3 -m pip install --user setuptools
    make install
    make test
    make test-memleaks
netbsd:
runs-on: macos-12
steps:
- uses: actions/checkout@v3
- name: Run tests
  uses: vmactions/netbsd-vm@v0
with:
  usesh: true
  prepare: |
    set -e
    pkg_add -v pkgin
    pkgin update
    pkgin -y install python311-* py311-setuptools-* gcc12-*
  run: |
    set -e
    make install-pip PYTHON=python3.11
    python3.11 -m pip install --user setuptools
    make install PYTHON=python3.11
    make test PYTHON=python3.11
    make test-memleaks PYTHON=python3.11
```

1.79 enum34 1.1.10

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1.80 numpy 1.25.1

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1.81 xstate 4.38.3

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1.82 prop-types 15.8.1

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1.83 dom-helpers 5.2.1

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1.84 Iodash 4.17.21

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1.85 crypto-js 4.2.0

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1.86 pexpect 4.9.0

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1.87 dulwich 0.21.7

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1.92 backports-functools-lru-cache 2.0.0

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1.93 bs4 0.0.2

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		

PSF yes

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1.94 moment-timezone 0.5.45

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1.95 redux 5.0.1

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1.96 types-react-dom 17.0.25

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  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
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    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "npm-license-crawler-tests.ts"
  ]
}
```

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{
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}

```

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```

{
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    "validate-npm-package-license-tests.ts"
  ]
}
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```

{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
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    "strictFunctionTypes": true,
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  },
  "files": [
    "index.d.ts",
    "nodejs-license-file-tests.ts"
  ]
}
{
  "files": [
    "index.d.ts",
    "angular-permission-tests.ts"
  ]
}

```

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],
"compilerOptions": {
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  "lib": [
    "es6",
    "dom"
  ],
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  "noImplicitThis": true,
  "strictNullChecks": false,
  "strictFunctionTypes": true,
  "types": [],
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  "forceConsistentCasingInFileNames": true
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}
{
"compilerOptions": {
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  "lib": [
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  "strictFunctionTypes": true,
  "strictNullChecks": true,
  "types": [],
  "noEmit": true,
  "forceConsistentCasingInFileNames": true
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"files": [
  "index.d.ts",
  "license-key-gen-tests.ts"
]
}
{
"compilerOptions": {
  "module": "node16",
  "lib": [
    "es6"
  ],
  "noImplicitAny": true,
  "noImplicitThis": true,
  "strictNullChecks": true,
  "strictFunctionTypes": true,
  "types": [],
  "noEmit": true,
  "forceConsistentCasingInFileNames": true
}

```

```

    },
    "files": [
      "index.d.ts",
      "license-checker-webpack-plugin-tests.ts"
    ]
  }
  {
    "rules": {
      "@definitelytyped/dt-header": "off",
      "@definitelytyped/no-any-union": "off",
      "@definitelytyped/no-declare-current-package": "off",
      "@definitelytyped/strict-export-declare-modifiers": "off",
      "@typescript-eslint/triple-slash-reference": "off",
      "@typescript-eslint/naming-convention": "off"
    }
  }
}

```

1.97 asgiref 3.8.1

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1.98 react-markdown 8.0.7

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1.99 gitpython 3.1.43

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1.100 distro 1.8.0

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1.101 colorama 0.4.6

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1.102 sniffio 1.3.1

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1.103 react-dom 18.3.1

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1.104 react 18.3.1

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1.105 keyring 24.3.1

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1.106 react-bootstrap 1.6.8

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1.108 python-dateutil 2.9.0.post0

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1.109 events 3.3.0

1.109.1 Available under license :

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MIT

1.110 pygments 2.18.0

1.110.1 Available under license :

```
---input---
!%$^*__--__._+++====-crazy-symbol

---tokens---
'!%$^*__--__._+++====-crazy-symbol' Name.Variable
'\n'      Text.Whitespace
'# New ports collection makefile for:  python25\n' Comment

'# Date created:      3 July 2003\n' Comment

'# Whom:              Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

'#\n'      Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

'\n'      Text.Whitespace

'PORTNAME' Name.Variable
'='       Operator
'\t'     Text.Whitespace
'python25' Text
'\n'     Text.Whitespace
```

'PORTVERSION' Name.Variable

'=' Operator
'\t' Text.Whitespace
'2' Literal.Number
'5.1' Text
'\n' Text.Whitespace

'CATEGORIES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'lang' Text
' ' Text.Whitespace
'python' Text
' ' Text.Whitespace
'ipv6' Text
'\n' Text.Whitespace

'MASTER_SITES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
Literal.String.Interpol
'\n' Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'DISTFILES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable

'=' Operator
'\t' Text.Whitespace

'python@FreeBSD.org' Text

'\n' Text.Whitespace

'COMMENT' Name.Variable

'?=' Operator

'\t' Text.Whitespace

'An' Text

' ' Text.Whitespace

'interpreted' Text

' ' Text.Whitespace

'object-oriented' Text

' ' Text.Whitespace

'programming' Text

' ' Text.Whitespace

'language' Text

'\n'

Text.Whitespace

'\n' Text.Whitespace

'DIST_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python' Text

'\n' Text.Whitespace

'WRKSRC' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.static' Text

'\n' Text.Whitespace

'PATCH_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'GNU_CONFIGURE' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'CONFIGURE_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace

'--build' Text

'=' Operator

'\${' Literal.String.Interpol

'MACHINE_ARCH' Name.Variable

'}' Literal.String.Interpol

'-portbld-freebsd'

Text

'\${' Literal.String.Interpol

'OSREL' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable

'=' Operator

'\t' Text.Whitespace

'./configure' Text

' ' Text.Whitespace

'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable

'=' Operator

'\t' Text.Whitespace

'OPT' Name.Variable

'=' Operator

"" Literal.String.Double

'\${' Literal.String.Interpol

'CFLAGS' Name.Variable

'}' Literal.String.Interpol

"" Literal.String.Double

' ' Text.Whitespace

'SVNVERSION' Name.Variable

'=' Operator

""echo freebsd"" Literal.String.Double

'\n' Text.Whitespace

'MAKE_ENV' Name.Variable

'=' Operator

'\t' Text.Whitespace

'VPATH' Name.Variable

'=' Operator

"" Literal.String.Double

'\${' Literal.String.Interpol

'PYTHON_WRKSRC'

Name.Variable

'}' Literal.String.Interpol

""" Literal.String.Double

'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace

'altinstall' Text

'\n' Text.Whitespace

'MAN1' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.1' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python2.5' Text

'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable

'='

Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED_WRKSRC' Name.Variable
'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.shared' Text
'\n' Text.Whitespace

'PLIST' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/PLIST' Text
'\n' Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?=' Operator
'\${' Literal.String.Interpol
'PKGDIR' Name.Variable
'}' Literal.String.Interpol
'/pkg-plist' Text
'\n' Text.Whitespace

'PLIST_SUB' Name.Variable
'=' Operator
'\t' Text.Whitespace
'PYVER' Name.Variable
'=' Operator
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'.'
Punctuation
'S' Name.Variable
'/python/' Punctuation
'}' Literal.String.Interpol
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'=' Operator
'\${' Literal.String.Interpol
'PORTVERSION' Name.Variable
'.' Punctuation

'S' Name.Variable
 './c/c/' Punctuation
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

'DEMODIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/share/examples/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

'TOOLS DIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}'
 Literal.String.Interpol
 '/share/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

\n' Text.Whitespace

'BIN_SCRIPTS' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 'idle' Text
 '' Text.Whitespace
 'pydoc' Text
 '' Text.Whitespace
 'python' Text
 '' Text.Whitespace
 'python-shared' Text
 '' Text.Whitespace
 'smtpd.py' Text
 '' Text.Whitespace
 'python-config' Text
 '' Text.Whitespace
 '\\n' Literal.String.Escape

```

\t\t'    Text.Whitespace
'python-shared-config' Text
\n'      Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='      Operator
\t'      Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'-e'
Text
''       Text.Whitespace
"'s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},'" Literal.String.Single
'\n\n'   Text.Whitespace

'OPTIONS' Name.Variable
'='      Operator
\t'      Text.Whitespace
'THREADS' Text
''       Text.Whitespace
"'Enable thread support'" Literal.String.Double
''       Text.Whitespace
'on'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'HUGE_STACK_SIZE' Text
''       Text.Whitespace
"'Use a larger thread stack'" Literal.String.Double
''       Text.Whitespace
'off'    Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'UCS4'   Text
''       Text.Whitespace
"'Use UCS4 for unicode support'" Literal.String.Double
''       Text.Whitespace
'on'     Text
''       Text.Whitespace

```

```

\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'PYMALLOC'
    Text
'      Text.Whitespace
"Use python\s internal malloc" Literal.String.Double
'      Text.Whitespace
'on'    Text
'      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'IPV6'  Text
'      Text.Whitespace
"Enable IPv6 support" Literal.String.Double
'      Text.Whitespace
'on'    Text
'      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'FPECTL' Text
'      Text.Whitespace
"Enable floating point exception handling" Literal.String.Double
'      Text.Whitespace
'off'   Text
\\n\\n'  Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

\n'     Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS' Name.Variable
'='      Operator
\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'
    Text
'      Text.Whitespace
'python.1' Text
\n'     Text.Whitespace

'PLIST_SUB' Name.Variable

```

```

'+='      Operator
'\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='      Operator
''''     Literal.String.Double
'\n'     Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='      Operator
"@comment " Literal.String.Double
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'  Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'-D__wchar_t' Text
'='      Operator
'wchar_t' Text
'\n'     Text.Whitespace

'\n'     Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'--with-threads'
Text
'\n'     Text.Whitespace

'CFLAGS'  Name.Variable
'+='      Operator
'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'     Literal.String.Interpol

```

```

\n'      Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'  Name.Variable
'+='      Operator
'\t\t'   Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='       Operator
'0x20000' Text
\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'CFLAGS'  Name.Variable
'+='      Operator
'\t\t'   Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='       Operator
'0x100000' Text
\n'      Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='      Operator
'\t\t'   Text.Whitespace
'LDFLAGS'  Name.Variable
'='       Operator
'"'        Literal.String.Double
'${'      Literal.String.Interpol
'PTHREAD_LIBS'
Name.Variable
'}'       Literal.String.Interpol
''        Literal.String.Double
'${'      Literal.String.Interpol
'LDFLAGS'  Name.Variable
'}'       Literal.String.Interpol
'"'        Literal.String.Double
\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'--without-threads' Text
\n'      Text.Whitespace

```

```

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'LDFLAGS' Name.Variable
'='       Operator
'"'       Literal.String.Double
'${'      Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'       Literal.String.Interpol
'"'       Literal.String.Double
'\n'      Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'      Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'--enable-unicode' Text
'='       Operator
'ucs4'    Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'--without-pymalloc' Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

```

```

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
"@comment " Literal.String.Double
'\n' Text.Whitespace

'.endif\n'
Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
"@comment " Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable

```

```

'+='      Operator
'      '   Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='      Operator
'900'    Literal.Number
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='
      Operator
'\t'     Text.Whitespace
'NO_NIS'  Name.Variable
'='      Operator
'"@comment "' Literal.String.Double
'\n'     Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'NO_NIS'  Name.Variable
'='      Operator
'"'"'    Literal.String.Double
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
' '      Text.Whitespace
'--enable-ipv6' Text
'\n'     Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator

```

```

''      Text.Whitespace
'--disable-ipv6' Text
'\n'    Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'      Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''      Text.Whitespace
'--with-fpectl'
Text
'\n'    Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'      Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
''      Text.Whitespace
'plat-freebsd5' Text
''      Text.Whitespace
'plat-freebsd6' Text
'\n'    Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
''      Text.Whitespace
'plat-freebsd5' Text
''      Text.Whitespace
'plat-freebsd7' Text
'\n'    Text.Whitespace

'.else\n'   Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text

```

```

''      Text.Whitespace
'plat-freebsd6' Text
''      Text.Whitespace
'plat-freebsd7' Text
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

'pre-patch' Name.Function
':'     Operator
'\n'    Text.Whitespace

'\t'
      Text.Whitespace
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Modules' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"'1s,^.*$$,#{${PREFIX}}/bin/${PYTHON_VERSION}," Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Tools/scripts/pydoc' Text
''      Text.Whitespace
'>'    Text
''

```

```

    Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'    Literal.String.Interpol
'/pydoc2.5' Text
'\n\t' Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-e'   Text
''     Text.Whitespace
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
''     Text.Whitespace
'\\n'  Literal.String.Escape

\t\t' Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'    Literal.String.Interpol
'/Tools/scripts/idle' Text
''     Text.Whitespace
'>'   Text
''     Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'    Literal.String.Interpol
'/idle2.5' Text
'\n\t' Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'    Literal.String.Interpol
''

    Text.Whitespace
'-e'   Text
''     Text.Whitespace
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
''     Text.Whitespace
'\\n'  Literal.String.Escape

\t\t' Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'    Literal.String.Interpol
'/Lib/smtpd.py' Text
''     Text.Whitespace
'>'   Text
''     Text.Whitespace

```

```

'${'      Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
"'s,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'
      Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'\s/^\(\s *prefixes = .*\\)\]\$\\1, "${X11BASE}"\]g\" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace

```

```

'-e'      Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'
Text.Whitespace
"'s^\t((..ASDLGEN.*\))\$\$|\t\${TRUE}|g'" Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'       Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'  Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
"'s*\t((..INSTALL_SCRIPT.*\))python-config\$\$|#port \\\1|" Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'       Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'  Text.Whitespace
'${'      Literal.String.Interpol
'SED'     Name.Variable
'}'
    Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
"'s|^#!.*#!\$\{PREFIX\}/bin/\$\{PYTHON_VERSION\}|" Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol

```

```

'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python-config.in' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
'\n\t'  Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}"
Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

\t\t'  Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'     Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'-config' Text
'\n\n'  Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

```

```

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
        Literal.String.Interpol
'/Modules' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'ECHO'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
''       Text.Whitespace
'>>'    Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'post-configure' Name.Function
':'      Operator
'\n'     Text.Whitespace

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-C'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-cf'
        Text
''       Text.Whitespace

```

```

' ' Text
'' Text.Whitespace
' ' Text
'' Text.Whitespace
'|' Punctuation
'' Text.Whitespace
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-C' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-xf' Text
'' Text.Whitespace
'-' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-sf' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC'
    Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-e' Text
'' Text.Whitespace
"'s,^\(LDLIBRARY=\\).*$$,\\1libpython$$ (VERSION).so,'" Literal.String.Single
'' Text.Whitespace
'\\n' Literal.String.Escape

\t\t' Text.Whitespace

```

```

'-e'      Text
''        Text.Whitespace
"s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$(VERSION)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$$(CCSHARED)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\\(Makefile Modules/config.c:. *\\)Makefile.pre,\\1,"
Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\\((BUILDPYTHON)\\):.*\\).(LIBRARY),\\1," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\\((BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'       Literal.String.Interpol
'/Makefile' Text
''        Text.Whitespace
'>'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'       Literal.String.Interpol
'/Makefile' Text
'\n\n'    Text.Whitespace

```

```



```

```

'lib'      Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'       Literal.String.Interpol
'.so'     Text
''        Text.Whitespace
'lib'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so.1'  Text
';'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t'     Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-f'    Text
''      Text.Whitespace
'python' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'pre-su-install' Name.Function
':'     Operator
'\n'    Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

\t'     Text.Whitespace
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text

```

```

'${'    Literal.String.Interpol
'platform' Name.Variable
'}'     Literal.String.Interpol
'\n'    Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'
Literal.String.Interpol
'/Lib/'  Text
'${'    Literal.String.Interpol
'platform' Name.Variable
'}'     Literal.String.Interpol
 '/'     Text
'${'    Literal.String.Interpol
'file'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
 '/'     Text
'${'    Literal.String.Interpol
'platform' Name.Variable
'}'     Literal.String.Interpol
 '/'     Text
'\n'    Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n'    Text.Whitespace

'pre-install' Name.Function
':'     Operator
'\n'    Text.Whitespace

```

```

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'CAT'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
        Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'|'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'AWK'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'\{ print $$0; } \\n\t/LIBDIR.*\\.py$$/ && !\\/bad/ { print $$0 "o"; print $$0 "c"; }\' Literal.String.Single
\t'      Text.Whitespace
>'       Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PLIST'  Name.Variable
'}'      Literal.String.Interpol
'\n\n'   Text.Whitespace

```

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

```

\t'      Text.Whitespace
'('      Operator
'['      Operator
''       Text.Whitespace
'-f'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/without_own_sha'
Text
''       Text.Whitespace
']'      Operator
''       Text.Whitespace
'&&'    Operator
''       Text.Whitespace
'\\n'   Literal.String.Escape

\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'GREP'   Name.Variable

```

```

'}'      Literal.String.Interpol
''       Text.Whitespace
'-v'    Text
''       Text.Whitespace
"lib-dynload/_sha" Literal.String.Single
''       Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'&&'   Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'   Text.Whitespace
'${'   Literal.String.Interpol
'CAT'  Name.Variable
'}'

      Literal.String.Interpol
''     Text.Whitespace
'${'   Literal.String.Interpol
'PLIST' Name.Variable
'}'    Literal.String.Interpol
'.tmp' Text
''     Text.Whitespace
'>'   Text
''    Text.Whitespace
'${'   Literal.String.Interpol
'PLIST' Name.Variable
'}'    Literal.String.Interpol
')'    Operator
''     Text.Whitespace
'|'    Operator
''     Text.Whitespace
'${'   Literal.String.Interpol
'TRUE' Name.Variable
'}'    Literal.String.Interpol
'\n\n' Text.Whitespace

'post-install' Name.Function
':'         Operator

```

```

\n'      Text.Whitespace

\t@# install config providers\n' Comment

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/'

      Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'-config' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'   Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/'      Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
'-config' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'   Text
'\n\n'   Text.Whitespace

\t@#

```

shared version of executable and library\n' Comment

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so.1' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\n\t' Text.Whitespace
'cd' Name.Builtin
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'; ' Punctuation
' ' Text.Whitespace
'\${' Literal.String.Interpol
'LN'
Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-sf' Text
' ' Text.Whitespace
'lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so.1' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace

'lib' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so' Text
 '\n\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'LN' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-sf' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/lib/lib' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so' Text
 ''
 Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHONPREFIX_LIBDIR' Name.Variable
 '}' Literal.String.Interpol
 '/config' Text
 '\n\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'INSTALL_PROGRAM' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'SHARED_WRKSRC' Name.Variable
 '}' Literal.String.Interpol
 '/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 '/thon/thon-shared/' Punctuation
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t\t' Text.Whitespace

'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\n' Text.Whitespace

'\t@# additional files installing by ports\n'
Comment

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
' ' Text.Whitespace
'\${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text.Whitespace
'@' Text
'\${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\${'
Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1' Text
'\n\t' Text.Whitespace

```

'${'      Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python.man' Text
''       Text.Whitespace
'\\n'     Literal.String.Escape

'\t'     Text.Whitespace
'${'      Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'      Literal.String.Interpol
'/man/man1/' Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'     Text
'\n\n'   Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'     Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'f'      Text
''       Text.Whitespace
'in'     Keyword
        Keyword
''       Text.Whitespace
'${'      Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'do'     Keyword
''       Text.Whitespace
'\\n'     Literal.String.Escape

'\t'     Text.Whitespace
'TARGET' Name.Variable
'='      Operator
'^'      Literal.String.Backtick
'${'      Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}'      Literal.String.Interpol

```

```

''      Text.Whitespace
'$$'   Name.Variable
'f'    Text
''     Text.Whitespace
'|'    Punctuation
''     Text.Whitespace
'${'   Literal.String.Interpol
'SED'  Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-E'   Text
''     Text.Whitespace
'${'   Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'    Literal.String.Interpol
'`'    Literal.String.Backtick
';'
      Punctuation
''     Text.Whitespace
'\\n'  Literal.String.Escape

'\t'   Text.Whitespace
'cd'   Name.Builtin
''     Text.Whitespace
'${'   Literal.String.Interpol
'PREFIX' Name.Variable
'}'    Literal.String.Interpol
'/bin' Text
''     Text.Whitespace
'&&'  Operator
''     Text.Whitespace
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-f'   Text
''     Text.Whitespace
'$$'   Name.Variable
'TARGET' Text
''     Text.Whitespace
'$$'   Name.Variable
'f'    Text
';'    Punctuation
''     Text.Whitespace
'\\n'  Literal.String.Escape

'\t'   Text.Whitespace
'done' Keyword

```

```

\n'      Text.Whitespace

'.endif\n'  Comment.Preproc

\n'      Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

\t'
    Text.Whitespace
'@'      Text
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'      Literal.String.Interpol
'\n\t'   Text.Whitespace
'@cd'    Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-cf'    Text
''       Text.Whitespace
'-'      Text
''       Text.Whitespace
'Tools'  Text
''       Text.Whitespace
'|'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'('      Operator
'cd'    Name.Builtin
''       Text.Whitespace
'${'
    Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'      Literal.String.Interpol

```

```

';'      Punctuation
''       Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
')'     Operator
'\n\t'  Text.Whitespace
'@'     Text
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'DEMODIR' Name.Variable
'}'     Literal.String.Interpol
'\n\t'  Text.Whitespace
'@cd'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Demo' Text
';'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'
        Literal.String.Interpol
''      Text.Whitespace
'-cf'   Text
''      Text.Whitespace
'-'     Text
''      Text.Whitespace
'*'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'('     Operator
'cd'   Name.Builtin
''      Text.Whitespace
'${'    Literal.String.Interpol

```

```

'DEMODIR' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-xf'    Text
''       Text.Whitespace
'-'      Text
')'      Operator
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n\t'   Text.Whitespace
'@'      Text
'${'     Literal.String.Interpol
'CAT'    Name.Variable
'}'
    Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}'      Literal.String.Interpol
'\n\n'   Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
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1.111 requests-file 2.1.0

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1.112 python-requests 2.32.3

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1.113 uwsgitop 0.12

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1.114 hvac 2.3.0

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1.115 loader-utils 3.3.1

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1.116 poetry-plugin-export 1.8.0

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1.117 robotframework 7.0.1

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1.118 redux-saga 1.3.0

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1.119 urllib3 1.26.19

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1.122 parse 1.20.2

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1.123 robotframework-requests 0.9.7

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1.124 idna 3.7

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1.125 python-certifi 2024.7.4

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.126 configparser 7.1.0

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1.127 paramiko 3.4.1

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Any

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Any

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a

modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Distutils2 Contributors
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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.139 humanize 4.11.0

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1.140 uuid 3.4.0

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1.141 json-editor 9.10.5

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1.142 bootstrap 5.3.3

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1.143 psycopg 2.9.10

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1.151 fastjsonschema 2.21.1

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1.153 sqlparse 0.5.3

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1.154 click 8.1.8

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1.155 pyasn1 0.6.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

****NOTE:****

The package is now maintained by **Christian Heimes** and **Simon Pichugin** in project <https://github.com/pyasn1/pyasn1>.

Features

- * Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Can operate on streams of serialized data
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 3.8+
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed

to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology.

Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```
```

```
)  
)  
...
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python  
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python  
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python  
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
```

```
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
...
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/pyasn1/pyasn1-modules>).

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You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

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or try browsing pyasn1

[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Metadata-Version: 2.1

Name: pyasn1

Version: 0.6.1

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Home-page: https://github.com/pyasn1/pyasn1

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: pyasn1 maintenance organization

Maintainer-email: Christian Heimes <christian@python.org>

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Project-URL: Documentation, https://pyasn1.readthedocs.io

Project-URL: Source, https://github.com/pyasn1/pyasn1

Project-URL: Issues, https://github.com/pyasn1/pyasn1/issues

Project-URL: Changelog, https://pyasn1.readthedocs.io/en/latest/changelog.html

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education  
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ASN.1 library for Python

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)
)
)
)
)
)
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>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
```
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room':
321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/pyasn1/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<https://pyasn1.readthedocs.io/en/latest/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/pyasn1/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/epyasn1/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO

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Found in path(s):

- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst

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[metadata]

name = pyasn1

version = attr: pyasn1.__version__

description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

long_description = file: README.md

long_description_content_type = text/markdown

```
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
    Documentation=https://pyasn1.readthedocs.io
    Source=https://github.com/pyasn1/pyasn1
    Issues=https://github.com/pyasn1/pyasn1/issues
    Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Console
    Intended Audience :: Developers
    Intended Audience :: Education
    Intended Audience :: Information Technology
    Intended Audience :: System
    Administrators
    Intended Audience :: Telecommunications Industry
    License :: OSI Approved :: BSD License
    Natural Language :: English
    Operating System :: OS Independent
    Programming Language :: Python :: 3
    Programming Language :: Python :: 3.8
    Programming Language :: Python :: 3.9
    Programming Language :: Python :: 3.10
    Programming Language :: Python :: 3.11
    Programming Language :: Python :: 3.12
    Programming Language :: Python :: 3.13
    Programming Language :: Python :: Implementation :: CPython
    Programming Language :: Python :: Implementation :: PyPy
    Topic :: Communications
    Topic :: Software Development :: Libraries :: Python Modules
```

[options]

```
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
    pyasn1
    pyasn1.type
    pyasn1.compat
    pyasn1.codec
    pyasn1.codec.ber
    pyasn1.codec.cer
```

pyasn1.codec.der
pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0

Found in path(s):

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg

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Found in path(s):

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/compat/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedval.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/debug.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/useful.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/der/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedval.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_univ.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/test_debug.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/univ.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_char.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_encoder.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_useful.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/constraint.py

- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/error.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tag.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/__main__.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/decoder.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_tag.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedtype.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/opentype.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/error.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/eoo.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_decoder.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/char.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_decoder.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tagmap.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/test_streaming.py
- *
- /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/streaming.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_encoder.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/encoder.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/compat/integer.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_constraint.py
- * /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/der/encoder.py

1.156 pyasn1-modules 0.4.1

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1.157 charset-normalizer 3.4.1

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1.158 oauthlib 3.2.2

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1.159 pycparser 2.22

1.159.1 Available under license :

pycparser -- A C parser in Python

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1.160 zipp 3.21.0

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1.161 dill 0.3.9

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1.162 wewidth 0.2.13

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.163 pynacl 1.5.0

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1.166 tomkit 0.13.2

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1.167 tabulate 0.9.0

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1.168 azure-core 1.32.0

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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/serializer/HttpResponseHeaderDecoder.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/client/traits/AzureSasCredentialTrait.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/serializer/HttpResponseBodyDecoder.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/UrlToken.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/DateTimeRfc1123Serializer.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/util/SliceInputStream.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/tracing/SpanKind.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/AddHeadersPolicy.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/CookiePolicy.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/HttpHeader.java
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- /azure-core-1-32-0-sources-1-jar/com/azure/core/annotation/ServiceClientProtocol.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/HostPolicy.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/UrlTokenizer.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/io/package-info.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/HttpResponse.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/util/ByteArrayContent.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/annotation/Options.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/polling/AsyncPollResponse.java
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- /azure-core-1-32-0-sources-1-jar/com/azure/core/http/rest/ResponseBase.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/BeforeRetryPolicyProvider.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/client/traits/ConnectionStringTrait.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/credential/AccessToken.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/models/JsonPatchOperation.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/http/rest/ResponseConstructorsCache.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/package-info.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/http/package-info.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/AsynchronousFileChannelAdapter.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/paging/package-info.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/GeoJsonSerializer.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/ByteArraySerializer.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/exception/ResourceModifiedException.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/util/EnvironmentConfiguration.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/BinaryData.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/polling/DefaultSyncPoller.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/serializer/DefaultJsonSerializer.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/metrics/LongGauge.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/HeaderCollectionHandler.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/rest/PagedResponseBase.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/serializer/TypeReference.java
- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/builder/package-info.java
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- /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/ProtocolPolicy.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/tracing/ProcessKind.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/HttpPipelineCallContext.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/annotation/HeaderParam.java
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- * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/HttpPolicyProvider.java

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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/serializer/CollectionFormat.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/util/polling/LongRunningOperationStatus.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/models/GeoArray.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/RequestIdPolicy.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/RequestConditions.java
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 * /azure-core-1-32-0-sources-1-jar/com/azure/core/annotation/HostParam.java
 * /azure-core-1-32-0-sources-1-jar/com/azure/core/http/rest/Page.java
 * /azure-core-1-32-0-sources-1-jar/com/azure/core/credential/TokenCredential.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/JsonDeserializers.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/util/paging/ContinuablePagedIterable.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/util/package-info.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/http/HttpPipeline.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/http/ContentType.java
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/azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/AzureKeyCredentialPolicy.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/util/UserAgentUtil.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/AdditionalPropertiesSerializer.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/util/Base64Util.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/cryptography/package-info.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/exception/ResourceExistsException.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/RedirectPolicy.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/util/logging/package-info.java
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/azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/AzureSasCredentialPolicy.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/util/Context.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/annotation/PathParam.java
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* /azure-core-1-32-0-sources-1-jar/com/azure/core/exception/AzureException.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/http/rest/ErrorOptions.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/AdditionalPropertiesDeserializer.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/ReflectionUtils.java
*
/azure-core-1-32-0-sources-1-jar/com/azure/core/http/policy/BearerTokenAuthenticationPolicy.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/AccessibleByteArrayOutputStream.java
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Found in path(s):

* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionTypeModifier.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionModule.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionSerializerProvider.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionPropertiesModifier.java
*
/azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionSerializer.java
* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/jackson/OptionBeanPropertyWriter.java
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/**

* Indicates functionality that is in preview and as such is subject to change in non-backwards compatible ways in
* future releases, including removal, regardless of any compatibility expectations set by the containing library
* version.

*

* Examples:

*

* { @literal @ }Beta

* { @literal @ }Beta(since="v1.0.0")

* { @literal @ }Beta(since="v1.2.0", reason="the feature is in preview")

* { @literal @ }Beta("introducing Foo which eventually replaces Bar")

*/

Found in path(s):

* /azure-core-1-32-0-sources-1-jar/com/azure/core/implementation/annotation/Beta.java

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-->

Found in path(s):

* /azure-core-1-32-0-sources-1-jar/META-INF/maven/com.azure/azure-core/pom.xml

1.169 ptyprocess 0.7.0

1.169.1 Available under license :

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1.170 secretstorage 3.3.3

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1.171 jaraco.classes 3.4.0

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1.172 tomli 2.2.1

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1.173 prompt-toolkit 3.0.48

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1.178 poetry-core 1.9.1

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1.180 build 1.2.2.post1

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1.181 lazy-object-proxy 1.10.0

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1.185 python-magic 0.4.27

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1.186 pygments 2.19.1

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```
---input---
!%$^*__--__._+++====-crazy-symbol

---tokens---
!%$^*__--__._+++====-crazy-symbol' Name.Variable
\n'      Text.Whitespace
# Step 1 of 3: from Hakaru to Maple LO (linear operator)\n' Comment.Single

\n'      Text.Whitespace

'toLO'   Name
''       Text.Whitespace
':='    Operator
''       Text.Whitespace
'module' Keyword
'()'     Punctuation
\n '    Text.Whitespace
'export' Keyword
\n '    Text.Whitespace
'ModuleApply' Name
''       Text.Whitespace
':='    Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
'm'      Name
';'      Operator
```

```

''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'h'     Name
';'     Punctuation
'\n '   Text.Whitespace
'h'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'gensym' Name
'('     Punctuation
''''    Punctuation
'h'     Name
''''    Punctuation
');'    Punctuation
'\n
'      Text.Whitespace
'_Env_HakaruSolve' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'false' Name
';'     Punctuation
'\n '   Text.Whitespace
'LO'    Name
'('     Punctuation
'h'     Name
';'     Operator
''      Text.Whitespace
'integrate' Name
'('     Punctuation
'm'     Name
';'     Operator
''      Text.Whitespace
'h'     Name
';'     Operator
''      Text.Whitespace
'[]))' Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
'\n\n ' Text.Whitespace

```

'export' Keyword
 '\n ' Text.Whitespace
 'integrate' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'h'
 Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'list' Name
 '(' Punctuation
 'name' Name
 '' Text.Whitespace
 '≡' Operator
 '' Text.Whitespace
 'range' Name
 ')' Punctuation
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'n' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name

```

'; Operator
'' Text.Whitespace
'l' Name
'; Operator
'' Text.Whitespace
'br'
    Name
'; Operator
'' Text.Whitespace
'm0' Name
'; Punctuation
'\n\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'm' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'known_continuous' Name
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'integrate_known' Name
'(' Punctuation
'Int' Name
'; Operator
'' Text.Whitespace
'Ints' Name
'; Operator
'' Text.Whitespace
'''' Punctuation
'xx' Name
'''' Punctuation
'; Operator
'' Text.Whitespace
'm' Name
'; Operator
'' Text.Whitespace
'h' Name
'; Operator
'' Text.Whitespace
'loops' Name
')' Punctuation
'\n ' Text.Whitespace
'elif' Keyword
'' Text.Whitespace
'm'

```

```

    Name
''      Text.Whitespace
'::'   Operator
''      Text.Whitespace
'known_discrete' Name
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'integrate_known' Name
'('     Punctuation
'Sum'   Name
';'     Operator
''      Text.Whitespace
'Sums'  Name
';'     Operator
''      Text.Whitespace
''''    Punctuation
'kk'    Name
''''    Punctuation
';'     Operator
''      Text.Whitespace
'm'     Name
';'     Operator
''      Text.Whitespace
'h'     Name
';'     Operator
''      Text.Whitespace
'loops' Name
')'     Punctuation
'\n    ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'm'     Name
''      Text.Whitespace
'::'   Operator
''      Text.Whitespace
''''    Punctuation
'Ret'   Name
'('     Punctuation
'anything' Name
')'
    Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'applyintegrand' Name
'('     Punctuation

```

'h' Name
',' Operator
'' Text.Whitespace
'mk_ary' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
',' Operator
'm' Name
')' Punctuation
',' Operator
'' Text.Whitespace
'loops' Name
'))' Punctuation
'\n ' Text.Whitespace
'elif' Keyword
'' Text.Whitespace
'm' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'''' Punctuation
'Bind' Name
'(' Punctuation
'anything' Name
',' Operator
'' Text.Whitespace
'name' Name
',' Operator
'' Text.Whitespace
'anything' Name
')' Punctuation
''''
Punctuation
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'3' Literal.Number.Integer
',' Operator

'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'mk_idx' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n
 ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'Integrand' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'integrate' Name
 "" Punctuation
 '(' Punctuation
 'res' Name

';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '=' Operator
 'h' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'integrate' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1'
 Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 'specfunc' Name
 '(' Punctuation
 'Msum' Name
 ')' Punctuation
 '''' Punctuation
 '' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 '(' Punctuation
 'nops' Name.Builtin

```

 '('      Punctuation
 'loops'  Name
 ')'      Punctuation
 ''       Text.Whitespace
 '='      Operator
 ''       Text.Whitespace
 '0'      Literal.Number.Integer
 ''       Text.Whitespace
 'or'     Keyword
 ''       Text.Whitespace
 'nops'
     Name.Builtin
 '('      Punctuation
 'm'     Name
 ')'     Punctuation
 ''      Text.Whitespace
 '='     Operator
 ''      Text.Whitespace
 '1'     Literal.Number.Integer
 ')'     Punctuation
 ''      Text.Whitespace
 'then'  Keyword
 '\n '   Text.Whitespace
 '^+'    Name
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 'map'   Name.Builtin
 '('     Punctuation
 'integrate' Name
 ';'     Operator
 ''      Text.Whitespace
 '['     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 'm'     Name
 ')]'    Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'h'     Name
 ';'     Operator
 ''      Text.Whitespace
 'loops' Name
 ')))'   Punctuation
 '\n '   Text.Whitespace
 'elif'  Keyword
 ''      Text.Whitespace
 'm'     Name

```

```

''      Text.Whitespace
'::'    Operator
'
'      Text.Whitespace
''''    Punctuation
'Weight' Name
'('     Punctuation
'anything' Name
';'     Operator
''      Text.Whitespace
'anything' Name
')'     Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'foldl' Name
'('     Punctuation
'product' Name
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'loops' Name
'))'    Punctuation
''      Text.Whitespace
'*'     Operator
''      Text.Whitespace
'integrate' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'm'
Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'h'     Name

```

```

';      Operator
''      Text.Whitespace
'loops' Name
')      Punctuation
'\n '   Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'm'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
't_pw_or_part' Name
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'Partition' Name
':'     Operator
'-'     Operator
'AppPartOrPw' Name
'\n     ' Text.Whitespace
'('     Punctuation
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'p'     Name
')      Punctuation
'\n     ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'Partition' Name
':'     Operator
'-'     Operator
'ConditionsDepend'
Name
'('     Punctuation
'p'     Name
';'     Operator
''      Text.Whitespace
'lhs'   Name.Builtin
'~'     Operator
'('     Punctuation
'loops' Name
'))'    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n     ' Text.Whitespace

```

'Partition' Name
 ':' Operator
 ':' Operator
 'Pmap' Name
 '(' Punctuation
 'z' Name
 '->' Operator
 'integrate' Name
 '(' Punctuation
 'z' Name
 ';' Operator
 'h' Name
 ';' Operator
 'loops' Name
 ')' Punctuation
 ';' Operator
 'p' Name
 ')' Punctuation
 '\n' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 '\n'
 Text.Whitespace
 ';' Operator
 '' Text.Whitespace
 'm' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 "" Punctuation
 'no_split_disj' Name
 "" Punctuation
 ']);' Punctuation
 '\n' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 't_case' Name
 '' Text.Whitespace

'and' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'map' Name.Builtin
 '(' Punctuation
 'lhs' Name.Builtin
 ';' Operator
 '' Text.Whitespace
 'loops'
 Name
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'subsop' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 '=' Operator
 'map' Name.Builtin
 '(' Punctuation
 'proc' Keyword
 '(' Punctuation
 'b' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'Branch' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'anything' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'subsop' Name.Builtin

```

 '('      Punctuation
 '2'     Literal.Number.Integer
 '='     Operator
 ""      Punctuation
'integrate' Name
 ""      Punctuation
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 '2'     Literal.Number.Integer
 ';'
     Operator
 'b'     Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'x'     Name
 ';'     Operator
 ''      Text.Whitespace
'loops'  Name
 ')'     Punctuation
 ';'     Operator
 'b'     Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'x'     Name
 '='     Operator
 'h'     Name
 ')'     Punctuation
 '\n     ' Text.Whitespace
'end'    Keyword
 ''      Text.Whitespace
'proc'   Keyword
 ';'     Operator
 '\n     ' Text.Whitespace
'op'     Name.Builtin
 '('     Punctuation
 '2'     Literal.Number.Integer
 ';'     Operator
 'm'     Name
 '))'    Punctuation
 ';'     Operator
 '\n     ' Text.Whitespace
 'm'     Name
 ');'    Punctuation
 '\n     ' Text.Whitespace
'elif'   Keyword

```

```

''      Text.Whitespace
'm'     Name
''      Text.Whitespace
:::
Operator
''      Text.Whitespace
''''    Punctuation
'LO'   Name
'('    Punctuation
'name'  Name
';'    Operator
''      Text.Whitespace
'anything' Name
')'    Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n '  Text.Whitespace
'eval'  Name.Builtin
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
'2'    Literal.Number.Integer
';'    Operator
'm'    Name
')'    Punctuation
';'    Operator
''      Text.Whitespace
'op'   Name.Builtin
'('    Punctuation
'1'    Literal.Number.Integer
';'    Operator
'm'    Name
')'    Punctuation
''      Text.Whitespace
'≡'   Operator
''      Text.Whitespace
'h'   Name
')'   Punctuation
'\n ' Text.Whitespace
'elif' Keyword
''    Text.Whitespace
'm'
Name
''    Text.Whitespace
:::  Operator
''    Text.Whitespace
''''  Punctuation

```

```

'Plate'  Name
'('      Punctuation
'nonnegint' Name
','      Operator
''       Text.Whitespace
'name'   Name
','      Operator
''       Text.Whitespace
'anything' Name
')'      Punctuation
''''     Punctuation
''       Text.Whitespace
'then'   Keyword
'\n     ' Text.Whitespace
'# Unroll Plate when the bound is known. We unroll Plate here (instead\n' Comment.Single

' '      Text.Whitespace
'# of unrolling Ints in reduce, for example) because we have no other\n' Comment.Single

' '      Text.Whitespace
"# way to integrate certain Plates, namely those whose bodies' control\n" Comment.Single

' '      Text.Whitespace
'# flows depend on the index.\n' Comment.Single

' '      Text.Whitespace
'x'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'mk_sym'
  Name
'('      Punctuation
''''     Punctuation
'pp'     Name
''''     Punctuation
','      Operator
''       Text.Whitespace
'h'      Name
');'     Punctuation
'\n     ' Text.Whitespace
'x'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
 '['     Punctuation
'seq'    Name.Builtin
'('      Punctuation

```

'cat' Name.Builtin
 '(' Punctuation
 'x' Name
 ',' Operator
 'i' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'i' Name
 '=' Operator
 '0' Literal.Number.Integer
 '..' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ',' Operator
 'm' Name
 ')' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ');' Punctuation
 '\n ' Text.Whitespace
 'if'
 Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ',' Operator
 'm' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '0' Literal.Number.Integer
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'undefined' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 'if' Keyword

```

''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
''      Text.Whitespace
'then'
      Keyword
'\n'    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'x'     Name
');'    Punctuation
'\n'    ' Text.Whitespace
'else'  Keyword
'\n'    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'idx'   Name
'('     Punctuation
'x'     Name
';'     Operator
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'm'     Name
')):'   Punctuation
'\n'    Text.Whitespace

'#      res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),\n' Comment.Single

'#      op(1,x));\n' Comment.Single

```

```

' ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if'
    Keyword
';' Punctuation
'\n ' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'mk_idx' Name
'(' Punctuation
'res' Name
';' Operator
'' Text.Whitespace
'loops' Name
');' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'applyintegrand' Name
'(' Punctuation
'h' Name
';' Operator
'' Text.Whitespace
'mk_ary' Name
'(' Punctuation
'''' Punctuation
'ary' Name
'''' Punctuation
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
';' Operator
'm' Name
')'
    Punctuation
';' Operator
'' Text.Whitespace

```

'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-' Operator
 '1'
 Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'integrate' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation

'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '=' Operator
 'i' Name
 '-' Operator
 '1' Literal.Number.Integer
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'Integrand' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name
 ';' Operator
 'x' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace

'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 "" Punctuation
 'Plate' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'name' Name
 ';' Operator
 '' Text.Whitespace
 'anything' Name
 ')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'integrate'
 Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '=' Operator
 '0' Literal.Number.Integer
 '..' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'm' Name

')' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'loops' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 'elif'
 Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 "" Punctuation
 'Context' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'anything' Name
 ')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'applyop' Name
 '(' Punctuation
 'integrate' Name
 ';' Operator
 '' Text.Whitespace
 '2' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace

'h' Name
 '' Text.Whitespace
 '::' Operator
 ''
 Text.Whitespace
 'applicable' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'x' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'gensym' Name
 '(' Punctuation
 "" Punctuation
 'xa' Name
 "" Punctuation
 ');' Punctuation
 '\n ' Text.Whitespace
 "" Punctuation
 'integrate' Name
 "" Punctuation
 '(' Punctuation
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'Integrand' Name
 '(' Punctuation
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 '(' Punctuation
 'x' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 "" Punctuation
 'procname' Name
 '(' Punctuation
 Punctuation
 'passed' Name

')' Punctuation
 "" Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n\n ' Text.Whitespace
 'local' Keyword
 '\n ' Text.Whitespace
 'integrate_known' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'make' Name
 ';' Operator
 '' Text.Whitespace
 'makes' Name
 ';' Operator
 '' Text.Whitespace
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 '::' Operator
 '
 ' Text.Whitespace
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace

'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'x' Name
';' Operator
'' Text.Whitespace
'dens' Name
';' Operator
'' Text.Whitespace
'bds' Name
';' Punctuation
'\n ' Text.Whitespace
'x' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'mk_sym' Name
'(' Punctuation
'var' Name
';' Operator
'' Text.Whitespace
'h' Name
');' Punctuation
'\n ' Text.Whitespace
'dens' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'density' Name
'[' Punctuation
'op'
Name.Builtin
'(' Punctuation
'0' Literal.Number.Integer
';' Operator
'm' Name
')]((' Punctuation
'op' Name.Builtin
'(' Punctuation
'm' Name
'))';' Punctuation
'\n ' Text.Whitespace
'bds' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace

'bounds' Name
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')](' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'm' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '[' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'make' Name
 '('
 Punctuation
 'dens' Name
 '(' Punctuation
 'x' Name
 ')' Punctuation
 '' Text.Whitespace
 '*' Operator
 '' Text.Whitespace
 'applyintegrand' Name
 '(' Punctuation
 'h' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'bds' Name
 ');' Punctuation

```

\n ' Text.Whitespace
'else' Keyword
\n ' Text.Whitespace
'makes' Name
 '(' Punctuation
'foldl' Name
 '(' Punctuation
'product' Name
 ';' Operator
'' Text.Whitespace
'dens' Name
 '(' Punctuation
'mk_idx' Name
 '(' Punctuation
'x' Name
 ';' Operator
'loops' Name
'))' Punctuation
''
  Operator
'' Text.Whitespace
'op' Name.Builtin
 '(' Punctuation
'loops' Name
'))' Punctuation
\n ' Text.Whitespace
* ' Operator
'' Text.Whitespace
'applyintegrand' Name
 '(' Punctuation
'h' Name
 ';' Operator
'' Text.Whitespace
'x' Name
 ')' Punctuation
 ';' Operator
\n ' Text.Whitespace
'x' Name
 ';' Operator
'' Text.Whitespace
'bds' Name
 ';' Operator
'' Text.Whitespace
'loops' Name
 ')' Punctuation
\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace

```

```

'if'      Keyword
';'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Punctuation
'\n'    Text.Whitespace

'end'    Keyword
''       Text.Whitespace
'module' Keyword
';'      Punctuation
        Punctuation
''       Text.Whitespace
'#toLO\n' Comment.Single
# Teach Maple (through depends and eval) about our new binding forms.
# forall bind from 1st arg to 2nd arg.
# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element
#   of the 4th arg to the other elements on the left and to the 3rd arg.

`depends/forall` := proc(bvar, pred, x, $)
  depends(pred, x minus convert(bvar, 'set'))
end proc:

`depends/Ints` := proc(body, bvar, rng, loops, x, y, $)
  local xx, i;
  if nargs = 5 then
    xx := x; # y is unused and x lists the variables to look for
  else
    xx := y; # x is some KB and y lists the variables to look for
    if depends(x, y) then return true end if;
  end if;
  # don't remove bvar from xx!
  if depends(body, xx minus {bvar}) then return true end if;
  for i from nops(loops) to 1 by -1 do
    if depends(op([i,2],loops), xx) then return true end if;
    xx := xx minus {op([i,1],loops)};
  end do;
  depends(rng, xx)
end proc:

`depends/Sums` := eval(`depends/Ints`):
`depends/ints` := eval(`depends/Ints`):
`depends/sums`
:= eval(`depends/Ints`):

`eval/forall` := proc(e, eqs, $)
  local bvar, pred;

```

```

bvar, pred := op(e);
eval(op(0,e), eqs)(BindingTools:-generic_evalat(bvar, pred, eqs))
end proc:

`eval/Ints` := proc(e, eqs, $)
local body, bvar, rng, loops, n, i;
body, bvar, rng, loops := op(1..4, e);
bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
eval(op(0,e), eqs)(body, bvar,
    BindingTools:-generic_evalatstar(rng, loops, eqs),
    op(5..-1,e))
end proc:
`eval/Sums` := eval(`eval/Ints`):
`eval/ints` := eval(`eval/Ints`):
`eval/sums` := eval(`eval/Ints`):

`eval/Int` := proc(e, eqs, $)
local body, bound, bvar;
body, bound := op(1..2, e);
if bound :: name then
    bound, body := BindingTools:-generic_evalat(bound, body, eqs);
elif bound :: `=` then
    bvar := lhs(bound);
    bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
    bound := bvar = eval(rhs(bound), eqs);
else
    body, bound := BindingTools:-generic_evalatstar(body,
bound, eqs);
end if;
eval(op(0,e), eqs)(body, bound, op(eval([op(3..-1,e)], eqs)))
end proc:
`eval/Sum` := eval(`eval/Int`):
`eval/Product` := eval(`eval/Int`):
`eval/int` := eval(`eval/Int`):
`eval/sum` := eval(`eval/Int`):
`eval/product` := eval(`eval/Int`):

#####

Loop := module ()
option package;
local intssums, enter_pieewise, wrap,
    t_peel, do_peel, do_split, do_graft, do_rebase_lower, do_rebase_upper,
    Binder, Stmt, t_binder, t_stmt, t_exp,
    ModuleLoad;
export
    # These first few are smart constructors (for themselves):
    ints, sums,

```

```

# while these are "proper functions"
mk_HArray, genLoop, unproducts, unproduct,
peel, split, graft, rebase_lower, rebase_upper, Print;
# these names are not assigned (and should not be). But they are
# used as global names, so document that here.
global Ints, Sums, csgn, sum, signum;
uses Hakaru, KB, Utilities;

t_binder := 'Binder(identical(product, Product, sum, Sum), t_kb)';
t_stmt := 'Stmt(anything, list, list)';
t_exp := '{Stmt(identical(exp), [], []),
          Stmt(identical(^), [anything], [])}';

ints := proc() intssums('ints', 'int', _passed) end proc;
sums := proc() intssums('sums', 'sum', _passed) end proc;

Print := proc(kind::identical(Ints,Sums,ints,sums),e,v::name,r0::range,rs::list(name=range),$)
  local k;
  k := StringTools[Capitalize](StringTools[Chop](convert(kind,string)));
  k := parse(cat("`print/",eval(k),"`"));
  eval(k)(e,v[op(rs)]=r0);
end proc;

intssums := proc(makes::name, make::name,
                e::anything, x::name, rr::range, ll::list(name=range),
                kb::t_kb:=empty, $)
  local t, r, l, kb2, w0, pp, i;
  t := `if` (make=int, HReal(open_bounds(rr)), HInt(closed_bounds(rr)));
  r, l, kb2 := genLoop(rr, ll, kb, 'Integrand'(x,e));
  w0, pp := unproducts(e, x, l,
kb2);
  if depends(w0, x) then
    'makes(e, x, rr, ll)'
  else
    pp := 'make'(pp, x=r);
    for i in l do pp := 'product'(pp, i) end do;
    NewSLO:-simplify_factor_assuming(w0 * pp, kb);
  end if
end proc;

mk_HArray := proc(t::t_type, loops::list(name=range), $)
  local res, i;
  res := t;
  for i in loops do res := HArray(res) end do;
  res
end proc;

genLoop := proc(e, loops::list(name=range), kb::t_kb)

```

```

local kb1, rng, ind, do_subst, i;
kb1 := kb;
rng := table();
ind := table();
do_subst := e -> foldl(((e,eq) -> eval(e, op([lhs(eq),1],loops)=rhs(eq))),
    e, entries(ind, 'pairs'));
for i from nops(loops) to 1 by -1 do
    rng[i] := do_subst(op([i,2],loops));
    ind[i], kb1 := genType(op([i,1],loops), HInt(closed_bounds(rng[i])),
        kb1, _rest);
end do;
do_subst(e, zip(`=`, [entries(ind, 'nolist')],
    [entries(rng, 'nolist')]), kb1
end
proc;

unproducts := proc(w, x::name, loops::list(name=range), kb::t_kb, $)
local w0, pp, j, w1, w2, loop;
w0 := 1;
pp := w;
for j from nops(loops) to 1 by -1 do
    w1, pp := op(unproduct(pp, x, op(j,loops), [], `*`, kb, kb));
    # separate out each of the factors in w1, as they might have different
    # variable dependencies, which can be exploited by other routines
    w2 := convert(w1, 'list', `*`);
    for loop in [op(j+1..-1, loops)] do
        w2 := map((w -> product(eval(w, x=idx(x,lhs(loop))), loop)), w2);
    end do;
    w0 := w0 * `*`(op(w2));
    # w0 := w0 * foldl(product, w1, op(j+1..-1, loops));
end do;
# Rewrite ... * piecewise(i<=kk-1, xs^2, 1)
# to ... * xs ^ (2*piecewise(i<=kk-1, 1))
# because the latter is easier to integrate and recognize with respect to xs
pp := for_poly(pp, # TODO: move this rewrite into eval_factor (then remove for_poly?))
proc (p)
local n, s, r;
if p :: 'And(specfunc(piecewise),
anyfunc(freeof(x), anything, 1))' then
n := indets(op(1,p),name);
if op(2,p) :: {'exp(anything)', `^`('freeof'(n),'anything')} then
s, r := selectremove(depends, convert(op([2,-1],p),'list',`*`), n);
subsop(-1 = `*`(piecewise(op(1,p), `*`(op(s))), op(r)), op(2,p))
else
s, r := selectremove(depends, convert(op(2,p),'list',`*`), n);
`*`(op(r) ^ piecewise(op(1,p), 1)
    * `if (nops(s) > 0, piecewise(op(1,p), `*`(op(s)), 1), 1)
end if

```

```

else
  p
end if
end proc);
w0, pp
end proc;

# Find [w1,pp] so that
# wrap(heap,w,mode,kb1,kb0)
# = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)
# making w1 depend on var as little as possible.
# The flag "mode" should be `+` if "heap" contains an entry of the form
# t_exp, or `*` otherwise.
unproduct := proc(w, var::name, loop::(name=range),
  heap::list, mode::identical(`*`,`+`),
  kb1::t_kb, kb0::t_kb, $)
local ind, res, dummy, kb, kbThen, i, w1, pp, s, r, x;
if not depends(w, var) then
  return [wrap(heap, w, mode, kb1, kb0), 1]
end if;
# The `..` (indices) of all occurrences of `idx(var,..)`
ind := map2(op, 2, indets(w, 'idx(identical(var), anything)'));
if nops(ind) = 1 then
  ind := op(ind);
  # Make sure ind contains no bound variables before lifting it!
  # So, check that "extract using indets" and "rename using eval" commute.
  s := indets(ind, 'name');
  s := map(proc(x,$) local y; `if` (depends(ind,x), x=y, NULL) end proc, s);
  if indets(eval(w, s), 'idx(identical(var), anything)')
    = {idx(var, eval(ind, s))} then
    # use kb as a local context, and 'solve' for the innermost bound var
    # used in ind.
    kb := assert(lhs(loop)=ind, kb1); # BUG! bijectivity assumed!
    # if the assertion makes the KB false, it isn't needed(?)
    ASSERT(type(kb, t_kb),
      sprintf("assert(%a,%a) produced a false KB!\n", lhs(loop)=ind,kb1)):
    res := subs(idx(var,ind) = idx(var,lhs(loop)), w);
    res := wrap(heap, res, mode, kb, kb0);
    res := subs(idx(var,lhs(loop))=dummy, res);
    if not depends(res, var) then
      return [1, subs(dummy=var, res)]
    end if
  end if
end if;
# distribute the unproduct over each part
if w :: mode then
  res := map(unproduct, `if` (mode=`*`, list_of_mul(w), [op(w)]),
    var, loop, heap, mode, kb1, kb0);

```

```

return [ `*(op(map2(op,1,res))), `*(op(map2(op,2,res)))]
end if;
# for piecewise, just map right in (using KB for context tracking)
if w :: 'specfunc(piecewise)' then
  kb := kb1;
  for i from 1 to nops(w) do
    if i :: even then
      kbThen := assert( op(i-1,w) , kb);
      # accumulate the rest, regardless
      kb := assert(Not(op(i-1,w)), kb);

      # if kbThen
is invalid, deal appropriately
      if not type(kbThen,t_kb) then next end if;

      w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kbThen,kb0));
      # if kb is inconsistent, we're done
      if not type(kb,t_kb) then break end if;
      elif i = nops(w) then
        if not type(kb,t_kb) then next end if;
        w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kb ,kb0))
      end if
    end do;
    return [ `*(entries(w1,'nolist')), `*(entries(pp,'nolist'))]
  end if;
  if mode = `*` then
    if w :: (anything^freeof(var)) then
      return unproduct(op(1,w), var, loop,
        [op(heap), Stmt(`^`, [], [op(2,w)]), `*`, kb1, kb0)
    elif w :: exp(anything) then
      return unproduct(op(1,w), var, loop,
        [op(heap), Stmt(exp, [], []), `+`, kb1, kb0)
    elif w :: (freeof(var)^anything) then
      return unproduct(op(2,w), var, loop,
        [op(heap), Stmt(`^`,
[op(1,w)], []), `+`, kb1, kb0)
    end if
  end if;
  if mode = `+` and w :: `*` then
    s, r := selectremove(depends, w, var);
    if s :: `*` then
      # Nonlinear %1 (time to reread kiselyov-lifted?)
    else
      return unproduct(s, var, loop,
        [op(heap), Stmt(`*`, [], [r]), `+`, kb1, kb0)
    end if
  end if;
  if w :: And(specfunc(`if`(mode = `*`, {product, Product}, {sum, Sum})),

```

```

    anyfunc(anything, name=range(freeof(var)))) then
x, kb := genType(op([2,1],w), HInt(closed_bounds(op([2,2],w))), kb1,
    w, var, loop, heap);
return unproduct(eval(op(1,w), op([2,1],w)=x), var, loop,
    [op(heap), Binder(op(0,w), kb1)], mode, kb, kb0)
end if;
if mode = `*` and w :: '{`+`, specfunc({sum, Sum})}' then
# Maybe this w is one of those big sums involving products that are
# always equal to 1, left behind by the density of Categorical
w1 := graft(split(peel(w)));
w1 := combine(rebase_upper(w1));
w1 := combine(rebase_lower(w1));
return [wrap(heap, w1, mode, kb1, kb0), 1]
end if;
return [wrap(heap, w, mode, kb1, kb0), 1]
end proc;

enter_pieewise := proc(ee, kb0:t_kb, mode::identical(`*`,`+`), $)
local e, kb, mo;
e := ee;
kb := kb0;
mo := mode();
while e :: 'specfunc(pieewise)' and nops(e) = 3 do
if op(3,e) = mo then
kb := assert(op(1,e), kb);
e := op(2,e);
elif op(2,e) = mo then
kb := assert(Not(op(1,e)), kb);
e := op(3,e);
else
break;
end if;
end do;
ASSERT(type(kb,t_kb), "enter_pieewise: KB of pieewise conditions is not valid, so the input pieewise must
not be valid.");
e, kb
end proc;

# heap is a list of t_binder and t_stmt
# one invariant to maintain:
# wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)

# Also, a t_binder is a Product/product/Sum/sum.
# And, a t_stmt is a 1-hole
context of a (multiplicative) AST,
# used for [a ^ hole, hole ^ b, exp(hole), c * hole].

wrap := proc(heap::list, e1, mode1::identical(`*`,`+`),

```

```

    kb1::t_kb, kb0::t_kb, $)
local e, kb, mode, i, entry, rest, var, new_rng, make, logmake,
    dom_spec, w, wPow, wExp, arrrgs;
e := e1;
kb := kb1;
mode := mode1;
for i from nops(heap) to 1 by -1 do
    entry := op(i,heap);
    if entry :: t_binder then
        if not (op(1,entry) in `if (mode=`+, {sum,Sum},
            {product,Product})) then
            print("Warning: heap mode inconsistency", heap, mode1)
        end if;
        e, kb := enter_pieewise(e, kb, mode);
        rest := kb_subtract(kb, op(2,entry));
        new_rng, rest := selectremove(type, rest,
            {[identical(genType), name, specfunc(HInt)],
            [identical(genLet), name, anything]});
        if not (new_rng :: [list]) then
            error "kb_subtract should return exactly
one gen*"
        end if;
        new_rng := op(new_rng);
        var := op(2,new_rng);
        if op(1,new_rng) = genType then
            make := op(1,entry);
            new_rng := range_of_HInt(op(3,new_rng));
        else # op(1,new_rng) = genLet
            make := eval;
            new_rng := op(3,new_rng);
        end if;
        dom_spec, rest := selectremove(depends,
            map(proc(a:[identical(assert),anything],$) op(2,a) end proc, rest),
            var);

# Like e := make(pieewise(And(op(dom_spec)), e, mode()), var=new_rng);
# but try to simplify by pushing the make and the pieewise into e
(e, w) := selectremove(depends, convert(e, 'list', `*`), var);
w := `*(op(w));
if mode = `*` then
    (wPow, e) := selectremove(type, e, `^`('freeof'(var), 'anything'));
    (wExp, e) := selectremove(type, e, 'exp(anything)');
    wExp := `+`(op(map2(op, 1, wExp)));
    wExp := expand(wExp, op(indets(wExp, function)));
    logmake := proc(t)
        local s, r;
        s, r := selectremove(depends, convert(t, 'list', `*`), var);
        `*(op(r),

```

```

    `if (make=eval,eval,Sum)
      (piecewise_And(dom_spec, `*(op(s), 0), var=new_rng));
    end proc;
    w := `( `if (w = 1, 1, w ^ logmake(1))
      , op(map((f -> op(1,f) ^ logmake(op(2,f))), wPow))
      , `if (wExp = 0, 1, exp(matype(`+,logmake,wExp))) );
    end if;
    e := w * make(piecewise_And(dom_spec, `*(op(e), mode()), var=new_rng);

# `rest' originally comes from `entry', and this reinserts it after some
# processing. The original KB was valid, so this one should also be valid.
kb := foldr(assert, op(2,entry), op(rest));
ASSERT(type(kb,t_kb), "Loop/wrap{t_binder}: rebuilding kb produced contradiction");

elif entry :: t_stmt then
  # We evaluate arrrgs first, in case op(1,stmt) is an operation (such
as
  # piecewise) that looks ahead at how many arguments it is passed before
  # they are evaluated.
  arrrgs := op(op(2,entry), e, op(op(3,entry)));
  e := op(1,entry)(arrrgs);
  if entry :: t_exp then
    if mode <> `+` then
      print("Warning: heap mode inconsistency?", heap, mode1)
    end if;
    mode := `*;
  end if
  else error "Malformed heap entry %1", entry end if
end do;
if mode <> `*` then
  print("Warning: heap mode inconsistency??", heap, mode1)
end if;
e, kb := enter_piecewise(e, kb, mode);
rest := kb_subtract(kb, kb0);
rest := map(proc(a:[identical(assert),anything], $) op(2,a) end proc, rest);
(wExp, e) := selectremove(type, convert(e, 'list', `*), 'exp(anything)');
wExp := `(op(map2(op, 1, wExp)));
wExp := expand(wExp, op(indets(wExp, function)));
logmake := (t -> t * piecewise_And(rest,1,0));
`if (wExp = 0, 1, exp(matype(`+,logmake,wExp)))

  * piecewise_And(rest, `*(op(e),1);
end proc;

# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)
# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)
t_peel := 'And(specfunc({sum,Sum,product,Product}),
  anyfunc(anything, name=range));

```

```

peel := proc(e, $)
  subsindets(e, t_peel, do_peel);
end proc;
do_peel := proc(e, $)
  local make, body, x, r, cond, line, test, x0, r0, cond0, here, rest;
  if not (e :: t_peel) then return e end if;
  if op(0,e) in '{sum ,Sum }' then make := `+`;
  elif op(0,e) in '{product,Product}' then make := `*`; end if;
  body, r := op(e);
  x, r := op(r);
  for cond in indets(body, '{`= `(algebraic),`<`,`<=`}') do
    line := ` `(op(cond));
    if 1 <> degree(line, x) then next end if;
    if cond :: `=` then
      cond0 := true;
      if Testzero(eval(line, x=lhs(r))) then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      elif Testzero(eval(line, x=rhs(r))) then
        x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
      else next end if;
    else
      test := proc(x0, x1, $)
        local res;
        res := evalb(not op(0,cond)(eval(line, x=x1), 0));
        `if (res in '{true,false}'
          and evalb(op(0,cond)(eval(line, x=x0), 0)) = res,
          res,
          FAIL)
      end proc;
      cond0 := test(lhs(r), lhs(r)+1);
      if cond0 <> FAIL then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      else
        cond0 := test(rhs(r), rhs(r)-1);
        if cond0 <> FAIL then
          x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
        else next end if;
      end if;
    end if;
  here := subs(cond = cond0, body);
  rest := subs(cond = evalb(not cond0), body);
  return make(eval(here, x=x0), do_peel(eval(subsop(1=rest, [2,2]=r0, e))));
end do;
return e;
end proc;

```

```

# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)

```

```

split := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum}),
    anyfunc(And(`*`,Not(`*(Not(`+`))))),name=anything)',
    do_split);
end proc;
do_split := proc(e, $)
  local terms, x;
  terms := convert(expand(op(1,e), op(indets(op(1,e), function))),
    'list', `+`);
  x := op([2,1],e);
  `+`(op(map(proc(term, $)
    local s, r;
    s, r := selectremove(depends, convert(term, 'list', `*`), x);
    `*`(op(r), subsop(1=`*`(op(s)),e))
  end proc, terms)))
end proc;

# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)
graft := proc(e, $)
  subsindets(e, 'Or(And(`*`,Not(`*(Not(specfunc({product,Product}))))),
    And(`+`,Not(`+(Not(specfunc({sum ,Sum }))))))',
    do_graft);
end proc;
do_graft := proc(e, $)
  local produce, factors, i, j;
  produce := `if`(e::`*`, '{product,Product}',
    '{sum ,Sum }');
  factors := sort(convert(e,'list'),

    key = (factor -> -numbooccur(factor,produce)));
  for i from nops(factors) to 2 by -1 do
    for j from i-1 to 1 by -1 do
      if op(j,factors) :: 'And'(specfunc(produce),
        anyfunc(anything,name=range')) then
        if Testzero(op(i,factors) - eval(op([j,1],factors),
          op([j,2,1],factors)=op([j,2,2,1],factors)-1)) then
          factors := subsop(i=NULL,applyop(`-`,[j,2,2,1],factors,1));
          break
        elif Testzero(op(i,factors) - eval(op([j,1],factors),
          op([j,2,1],factors)=op([j,2,2,2],factors)+1)) then
          factors := subsop(i=NULL,applyop(`+`,[j,2,2,2],factors,1));
          break
        end if
      end if
    end do
  end do;
  op(0,e)(op(factors))
end proc;

```

```

# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)
rebase_lower := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product})),
    anyfunc(anything,
      name=Not({0,SymbolicInfinity,undefined})..anything)',
      do_rebase_lower);
end proc;
do_rebase_lower := proc(e, $)
  subsop([2,2,1]=0,
    applyop(`^`,
      [2,2,2],
      applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,1],e)),
      op([2,2,1],e)))
end proc;

# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)
rebase_upper := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product})),
    anyfunc(anything,
      name=anything..Not({0,SymbolicInfinity,undefined}))),
      do_rebase_upper);
end proc;
do_rebase_upper := proc(e, $)
  subsop([2,2,2]=0,
    applyop(`^`,
      [2,2,1],
      applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,2],e)),
      op([2,2,2],e)))
end proc;

ModuleLoad := proc($)
  # Override csgn to work a little bit harder on piecewise and sum
  # (to get rid
of csgn(1/2+1/2*sum(piecewise(...,1,0),...))
  # produced by int on a Gaussian mixture model)
  unprotect(csgn);
  csgn := overload([
    # Handle if the csgn of a piecewise doesn't depend on which branch
    proc(a :: specfunc(piecewise), $)
      option overload;
      local r, i;
      r := {seq(`if` (i::even or i=nops(a), csgn(op(i,a)), NULL),
        i=1..nops(a))};
      if nops(r)=1 then return op(r) end if;
      if not assigned(_Envsignum0) then
        r := r minus {0};

```

```

    if nops(r)=1 then return op(r) end if;
end if;
error "invalid input: cannot csgn %1", a;
end proc,
# Handle if the csgn of a sum doesn't depend on the bound variable
proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
  option overload;
  local r;
  r := csgn(op(1,a));
  if not depends(r,op([2,1],a)) then
    return signum(op([2,2,2],a)+1-op([2,2,1],a)) * r
  end if;
  error
"invalid input: cannot csgn %1", a;
end proc,
csgn]);
protect(csgn);

# Do the same to signum.
unprotect(signum);
signum := overload([
# Handle if the signum of a piecewise doesn't depend on which branch
proc(a :: specfunc(piecewise), $)
  option overload;
  local r, i;
  r := {seq( if (i::even or i=nops(a), signum(op(i,a)), NULL),
            i=1..nops(a))};
  if nops(r)=1 then return op(r) end if;
  if not assigned(_Envsignum0) then
    r := r minus {0};
    if nops(r)=1 then return op(r) end if;
  end if;
  error "invalid input: cannot signum %1", a;
end proc,
# Handle if the signum of a sum doesn't depend on the bound variable
proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
  option overload;
  local r;
  r := signum(op(1,a));
  if not depends(r,op([2,1],a)) then
    return signum(op([2,2,2],a)+1-op([2,2,1],a))
* r
  end if;
  error "invalid input: cannot signum %1", a;
end proc,
signum]);
protect(signum);

```

```

# Override sum to fail faster
unprotect(sum);
sum := overload([
  proc(f :: Not({`+`,`^`integer}),
    k :: name=And(range,Not(range(rational))), $)
    option overload;
    if not (^ `(op(rhs(k)) :: 'rational')
      and not (subsindets(f, 'anything^integer', f->op(1,f))
        :: '{`+`,`And(`*`,`Not(`*(Not(`+`))))}')
      and depends(indets(f, '{specfunc(idx), specindex(idx)}'), op(1,k))
    then
      'procname(_passed)'
    else
      error "invalid input: cannot fast-fail sum(%1, %2)", _passed
    end if
  end proc,
  sum]);
protect(sum);

:-`print/Ints` := curry(thismodule:-Print,Ints);
:-`print/Sums` := curry(thismodule:-Print,Sums);
:-`print/ints` := curry(thismodule:-Print,ints);
:-`print/sums` := curry(thismodule:-Print,sums);

end proc;
ModuleLoad():
end
module; # Loop
# New ports collection makefile for:  python25\n' Comment

# Date created:      3 July 2003\n' Comment

# Whom:              Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

#\n'      Comment

# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

\n'      Text.Whitespace

'PORTNAME' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'python25' Text
\n'     Text.Whitespace

'PORTVERSION' Name.Variable
'='     Operator

```

'\t' Text.Whitespace
'2' Literal.Number
'5.1' Text
'\n' Text.Whitespace

'CATEGORIES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'lang' Text
' ' Text.Whitespace
'python' Text
' ' Text.Whitespace
'ipv6' Text
'\n' Text.Whitespace

'MASTER_SITES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
Literal.String.Interpol
'\n' Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'DISTFILES' Name.Variable

'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable

'=' Operator
'\t' Text.Whitespace
'python@FreeBSD.org' Text
'\n' Text.Whitespace

'COMMENT' Name.Variable

'?=' Operator

'\t' Text.Whitespace

'An' Text

' ' Text.Whitespace

'interpreted' Text

' ' Text.Whitespace

'object-oriented' Text

' ' Text.Whitespace

'programming' Text

' ' Text.Whitespace

'language' Text

'\n'

Text.Whitespace

'\n' Text.Whitespace

'DIST_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python' Text

'\n' Text.Whitespace

'WRKSRC' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.static' Text

'\n' Text.Whitespace

'PATCH_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'GNU_CONFIGURE' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'CONFIGURE_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace
'--build' Text
'=' Operator
"\${}" Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}' Literal.String.Interpol
'-portbld-freebsd'
Text
"\${}" Literal.String.Interpol
'OSREL' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable
'=' Operator
'\t' Text.Whitespace
'./configure' Text
' ' Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'=' Operator
'\t' Text.Whitespace
'OPT' Name.Variable
'=' Operator
""" Literal.String.Double
"\${}" Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
' ' Text.Whitespace
'SVNVERSION' Name.Variable
'=' Operator
"echo freebsd" Literal.String.Double
'\n' Text.Whitespace

'MAKE_ENV' Name.Variable
'=' Operator
'\t' Text.Whitespace
'VPATH' Name.Variable
'=' Operator
""" Literal.String.Double
"\${}" Literal.String.Interpol
'PYTHON_WKSRRC'
Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable

'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable

'=' Operator
'\t' Text.Whitespace
'altinstall' Text
'\n' Text.Whitespace

'MAN1' Name.Variable

'=' Operator
'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable

'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable

'=' Operator
'\t' Text.Whitespace
'python2.5' Text
'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable

'=' Operator
Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED_WKSRRC' Name.Variable

'=' Operator
'\t' Text.Whitespace

'\${' Literal.String.Interpol
'PYTHON_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.shared' Text
'\n' Text.Whitespace

'PLIST' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/PLIST' Text
'\n' Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?=' Operator
'\${' Literal.String.Interpol
'PKGDIR' Name.Variable
'}' Literal.String.Interpol
'/pkg-plist' Text
'\n' Text.Whitespace

'PLIST_SUB' Name.Variable
'=' Operator
'\t' Text.Whitespace
'PYVER' Name.Variable
'=' Operator
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'.'
 Punctuation
'S' Name.Variable
'/python/' Punctuation
'}' Literal.String.Interpol
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'=' Operator
'\${' Literal.String.Interpol
'PORTVERSION' Name.Variable
'.'
'S' Name.Variable
'/.c/c/' Punctuation
'}' Literal.String.Interpol
'\n' Text.Whitespace

'DEMODIR' Name.Variable
'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/examples/' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'TOOLS DIR' Name.Variable
'=' Operator
'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}'
Literal.String.Interpol
'/share/' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'\n' Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'=' Operator
'\t' Text.Whitespace
'idle' Text
' ' Text.Whitespace
'pydoc' Text
' ' Text.Whitespace
'python' Text
' ' Text.Whitespace
'python-shared' Text
' ' Text.Whitespace
'smtpd.py' Text
' ' Text.Whitespace
'python-config' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'python-shared-config' Text
'\n' Text.Whitespace

```

'BINLINKS_SUB' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},'" Literal.String.Single
'\n\n'   Text.Whitespace

'OPTIONS' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'THREADS' Text
''       Text.Whitespace
"'Enable thread support'" Literal.String.Double
''       Text.Whitespace
'on'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'HUGE_STACK_SIZE' Text
''       Text.Whitespace
"'Use a larger thread stack'" Literal.String.Double
''       Text.Whitespace
'off'    Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'UCS4'   Text
''       Text.Whitespace
"'Use UCS4 for unicode support'" Literal.String.Double
''       Text.Whitespace
'on'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'PYMALLOC'

```

```

Text
''      Text.Whitespace
"Use python\s internal malloc" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
'IPV6'  Text
''      Text.Whitespace
"Enable IPv6 support" Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
'FPECTL' Text
''      Text.Whitespace
"Enable floating point exception handling" Literal.String.Double
''      Text.Whitespace
'off'   Text
\\n\\n' Text.Whitespace

'.include <bsd.port.pre.mk>\\n' Comment.Preproc

\\n'    Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\\n' Comment.Preproc

'MLINKS' Name.Variable
'='      Operator
\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.1'

Text
''      Text.Whitespace
'python.1' Text
\\n'    Text.Whitespace

'PLIST_SUB' Name.Variable
'+='    Operator
\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='     Operator

```

```

""""    Literal.String.Double
'\n'    Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='      Operator
"@comment "" Literal.String.Double
'\n'     Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'       Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'   Name.Variable
'+='       Operator
'\t'       Text.Whitespace
'-D__wchar_t' Text
'='        Operator
'wchar_t'  Text
'\n'       Text.Whitespace

'\n'       Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='       Operator
'\t'       Text.Whitespace
'--with-threads'
Text
'\n'       Text.Whitespace

'CFLAGS'   Name.Variable
'+='       Operator
'\t\t'     Text.Whitespace
'${'       Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'        Literal.String.Interpol
'\n'       Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

```

```

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x100000' Text
'\n' Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'LDFLAGS' Name.Variable
'=' Operator
'"' Literal.String.Double
'${' Literal.String.Interpol
'PTHREAD_LIBS'
Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
'"' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--without-threads' Text
'\n' Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable

```

```

'+='      Operator
'\t'     Text.Whitespace
'LDFLAGS' Name.Variable
'='      Operator
'"'      Literal.String.Double
'${'     Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'      Literal.String.Interpol
'"'      Literal.String.Double
'\n'     Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'     Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'--enable-unicode' Text
'='      Operator
'ucs4'   Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'--without-pymalloc' Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator

```

```

\t'      Text.Whitespace
'X86_ONLY' Name.Variable
'='      Operator
''''     Literal.String.Double
\n'     Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
\t'     Text.Whitespace
'X86_ONLY' Name.Variable
'='     Operator
"@comment" Literal.String.Double
\n'     Text.Whitespace

'.endif\n'
      Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'  '     Text.Whitespace
'32BIT_ONLY' Name.Variable
'='     Operator
"@comment" Literal.String.Double
\n'     Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'  '     Text.Whitespace
'32BIT_ONLY' Name.Variable
'='     Operator
''''     Literal.String.Double
\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable
'+='     Operator
'  '     Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='     Operator

```

```

'900'    Literal.Number
'\n'    Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'    Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='
    Operator
'\t'    Text.Whitespace
'NO_NIS'  Name.Variable
'='      Operator
"@comment " Literal.String.Double
'\n'    Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'    Text.Whitespace
'NO_NIS'  Name.Variable
'='      Operator
""       Literal.String.Double
'\n'    Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'    Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''       Text.Whitespace
'--enable-ipv6' Text
'\n'    Text.Whitespace

'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''       Text.Whitespace
'--disable-ipv6' Text
'\n'    Text.Whitespace

```

```

'.endif\n' Comment.Preproc

\n' Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'' Text.Whitespace
'--with-fpectl'
Text
\n' Text.Whitespace

'.endif\n' Comment.Preproc

\n' Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd5' Text
'' Text.Whitespace
'plat-freebsd6' Text
\n' Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd5' Text
'' Text.Whitespace
'plat-freebsd7' Text
\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd6' Text
'' Text.Whitespace
'plat-freebsd7' Text

```

```

\n'      Text.Whitespace

'.endif\n'  Comment.Preproc

\n'      Text.Whitespace

'pre-patch' Name.Function
':'      Operator
\n'      Text.Whitespace

\t'
      Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Modules' Text
\n\t'    Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'Is,^.*${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Tools/scripts/pydoc' Text
''       Text.Whitespace
'>'     Text
''

      Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/pydoc2.5' Text

```

'\n\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'SED' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-e' Text
 '' Text.Whitespace
 '"Is,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},"' Literal.String.Single
 '' Text.Whitespace
 '\\n' Literal.String.Escape

'\t\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PATCH_WRKSRC' Name.Variable
 '}' Literal.String.Interpol
 '/Tools/scripts/idle' Text
 '' Text.Whitespace
 '>' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'WRKDIR' Name.Variable
 '}' Literal.String.Interpol
 '/idle2.5' Text
 '\n\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'SED' Name.Variable
 '}' Literal.String.Interpol
 ''

Text.Whitespace
 '-e' Text
 '' Text.Whitespace
 '"Is,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},"' Literal.String.Single
 '' Text.Whitespace
 '\\n' Literal.String.Escape

'\t\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PATCH_WRKSRC' Name.Variable
 '}' Literal.String.Interpol
 '/Lib/smtpd.py' Text
 '' Text.Whitespace
 '>' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'WRKDIR' Name.Variable
 '}' Literal.String.Interpol
 '/smtpd2.5.py' Text
 '\n\t' Text.Whitespace

```

'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
"'s,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'
      Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'   Text.Whitespace
'\s^\(\s*prefixes = .*\\)\$\\1, "${X11BASE}"\]|g"' Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'

```

```

Text.Whitespace
"s|^\t\\(\\.ASDLGEN.*\\)\$|\t\${TRUE}|g" Literal.String.Single
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'\${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
"s|*\\(\\.INSTALL_SCRIPT.*\\)python-config\$\$|#port \\1|" Literal.String.Single
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'\${' Literal.String.Interpol
'SED' Name.Variable
'}'
  Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
"s|^#!.*#!\${PREFIX}/bin/\${PYTHON_VERSION}|" Literal.String.Single
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
' ' Text.Whitespace
'>' Text

```

```

''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
 '/'    Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}"
Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
 '/'    Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'     Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'-config' Text
'\n\n'  Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

\t'    Text.Whitespace
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol

```

```

''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
      Literal.String.Interpol
'/Modules' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'ECHO'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
''      Text.Whitespace
'>>'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

'post-configure' Name.Function
':'     Operator
'\n'    Text.Whitespace

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-cf'
      Text
''      Text.Whitespace
':'     Text
''      Text.Whitespace
':'     Text
''      Text.Whitespace
'|'     Punctuation

```

```

''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC'
      Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s,^\((LDLIBRARY=\\).*$$,\\|1libpython$$$(VERSION).so," Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

\t\t'  Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s,^\((BLDLIBRARY=\\).*$$,\\|1-L. -lpython$$$(VERSION)," Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

```

```

\t\t' Text.Whitespace
'-e' Text
'' Text.Whitespace
"s,^\\((CFLAGSFORSHARED=\\).*$$,\\1$$$(CCSHARED)," Literal.String.Single
'' Text.Whitespace
\\n' Literal.String.Escape

\t\t' Text.Whitespace
'-e' Text
'' Text.Whitespace
"s,^\\((Makefile Modules/config.c:.*\\)Makefile.pre,\\1,"
Literal.String.Single
'' Text.Whitespace
\\n' Literal.String.Escape

\t\t' Text.Whitespace
'-e' Text
'' Text.Whitespace
"s,^\\((BUILDPYTHON)\\:.*\\).(LIBRARY),\\1," Literal.String.Single
'' Text.Whitespace
\\n' Literal.String.Escape

\t\t' Text.Whitespace
'-e' Text
'' Text.Whitespace
"s,^\\((BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
'' Text.Whitespace
\\n' Literal.String.Escape

\t\t' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile' Text
'' Text.Whitespace
'>' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile' Text
\\n\\n' Text.Whitespace

'pre-build' Name.Function
':' Operator
\\n'

```

Text.Whitespace

`\t` Text.Whitespace
`'cd'` Name.Builtin
`''` Text.Whitespace
`'${'` Literal.String.Interpol
`'SHARED_WKRSRC'` Name.Variable
`}'` Literal.String.Interpol
`;` Punctuation
`''` Text.Whitespace
`'\\n'` Literal.String.Escape

`\t` Text.Whitespace
`'${'` Literal.String.Interpol
`'SETENV'` Name.Variable
`}'` Literal.String.Interpol
`''` Text.Whitespace
`'${'` Literal.String.Interpol
`'MAKE_ENV'` Name.Variable
`}'` Literal.String.Interpol
`''` Text.Whitespace
`'${'` Literal.String.Interpol
`'MAKE'` Name.Variable
`}'` Literal.String.Interpol
`''` Text.Whitespace
`'lib'` Text
`'${'` Literal.String.Interpol
`'PYTHON_VERSION'` Name.Variable
`}'` Literal.String.Interpol
`'.so'` Text
`''` Text.Whitespace
`'python'` Text
`;` Punctuation
`''` Text.Whitespace
`'\\n'`
Literal.String.Escape

`\t` Text.Whitespace
`'${'` Literal.String.Interpol
`'LN'` Name.Variable
`}'` Literal.String.Interpol
`''` Text.Whitespace
`'-f'` Text
`''` Text.Whitespace
`'lib'` Text
`'${'` Literal.String.Interpol
`'PYTHON_VERSION'` Name.Variable
`}'` Literal.String.Interpol

```

'.so'    Text
''       Text.Whitespace
'lib'    Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.so.1'  Text
';'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'LN'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-f'     Text
''       Text.Whitespace
'python' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
'\n\n'   Text.Whitespace

'pre-su-install' Name.Function
':'      Operator
'\n'     Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
'/'      Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

```

'.for file in IN.py regen\n' Comment.Preproc

\t' Text.Whitespace
\${' Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
\${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
Literal.String.Interpol
'/Lib/' Text
\${' Literal.String.Interpol
'platform' Name.Variable
'}' Literal.String.Interpol
'/' Text
\${' Literal.String.Interpol
'file' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
\\n' Literal.String.Escape

\t\t' Text.Whitespace
\${' Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
\${' Literal.String.Interpol
'platform' Name.Variable
'}' Literal.String.Interpol
'/' Text
\n' Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

\n' Text.Whitespace

'pre-install' Name.Function
'.' Operator
\n' Text.Whitespace

\t' Text.Whitespace
\${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol

```

''      Text.Whitespace
'${'
    Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'|'    Punctuation
''     Text.Whitespace
'${'   Literal.String.Interpol
'AWK'  Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'\{ print $$0; } \\n\t/LIBDIR.*\\.py$$/ && !\\/bad/ { print $$0 "o"; print $$0 "c"; }\' Literal.String.Single
'\t'   Text.Whitespace
'>'   Text
''     Text.Whitespace
'${'   Literal.String.Interpol
'PLIST' Name.Variable
'}'    Literal.String.Interpol
'\n\n' Text.Whitespace

```

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

```

'\t'   Text.Whitespace
'('    Operator
'['    Operator
''     Text.Whitespace
'-f'   Text
''     Text.Whitespace
'${'   Literal.String.Interpol
'WRKSRC' Name.Variable
'}'    Literal.String.Interpol
'/without_own_sha'
Text
''     Text.Whitespace
']'    Operator
''     Text.Whitespace
'&&'  Operator
''     Text.Whitespace
'\\n'  Literal.String.Escape

'\t\t' Text.Whitespace
'${'   Literal.String.Interpol
'GREP' Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-v'   Text
''     Text.Whitespace

```

```

"lib-dynload/_sha" Literal.String.Single
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'&&'    Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'
        Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
')'     Operator
''      Text.Whitespace
'|'     Operator
''      Text.Whitespace
'${'    Literal.String.Interpol
'TRUE'  Name.Variable
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'post-install' Name.Function
':'     Operator
'\n'    Text.Whitespace

'\t@# install config providers\n' Comment

```

```

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
 '/'
      Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'-config' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'    Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
 '/'      Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
'-config' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'    Text
'\n\n'   Text.Whitespace

\t@#
shared version of executable and library\n' Comment

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable

```

'}' Literal.String.Interpol
' ' Text.Whitespace
'\${' Literal.String.Interpol
'SHARED_WKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so.1' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\n\t' Text.Whitespace
'cd' Name.Builtin
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
';' Punctuation
' ' Text.Whitespace
'\${' Literal.String.Interpol
'LN'

 Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-sf' Text
' ' Text.Whitespace
'lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so.1' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t' Text.Whitespace
'lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so' Text

'\n\t' Text.Whitespace
 '\${}' Literal.String.Interpol
 'LN' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-sf' Text
 '' Text.Whitespace
 '\${}' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/lib/lib' Text
 '\${}' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so' Text
 ''
 Text.Whitespace
 '\${}' Literal.String.Interpol
 'PYTHONPREFIX_LIBDIR' Name.Variable
 '}' Literal.String.Interpol
 '/config' Text
 '\n\t' Text.Whitespace
 '\${}' Literal.String.Interpol
 'INSTALL_PROGRAM' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 '\${}' Literal.String.Interpol
 'SHARED_WRKSRC' Name.Variable
 '}' Literal.String.Interpol
 '/' Text
 '\${}' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 '/thon/thon-shared/' Punctuation
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\\\n' Literal.String.Escape

 '\t\t' Text.Whitespace
 '\${}' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/bin' Text
 '\n\n' Text.Whitespace

'\t@# additional files installing by ports\n'

Comment

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'INSTALL_SCRIPT' Name.Variable

'}' Literal.String.Interpol

' ' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/pydoc2.5' Text

' ' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/idle2.5' Text

' ' Text.Whitespace

'\\n' Literal.String.Escape

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/smtpd2.5.py' Text

' ' Text.Whitespace

'\${' Literal.String.Interpol

'PREFIX' Name.Variable

'}' Literal.String.Interpol

'/bin' Text

'\n\t' Text.Whitespace

'@' Text

'\${' Literal.String.Interpol

'MKDIR' Name.Variable

'}' Literal.String.Interpol

' ' Text.Whitespace

'\${'

Literal.String.Interpol

'MANPREFIX' Name.Variable

'}' Literal.String.Interpol

'/man/man1' Text

'\n\t' Text.Whitespace

'\${' Literal.String.Interpol

'INSTALL_MAN' Name.Variable

'}' Literal.String.Interpol

' ' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WKSRRC' Name.Variable
 '}' Literal.String.Interpol
 '/Misc/python.man' Text
 '' Text.Whitespace
 '\\n' Literal.String.Escape

\\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'MANPREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/man/man1/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.1' Text
 '\\n\\n' Text.Whitespace

.if \${PYTHON_VERSION} == \${PYTHON_DEFAULT_VERSION}\\n' Comment.Preproc

\\t' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'f' Text
 '' Text.Whitespace
 'in'
 Keyword
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'BIN_SCRIPTS' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '' Text.Whitespace
 '\\n\\n' Literal.String.Escape

\\t\\t' Text.Whitespace
 'TARGET' Name.Variable
 '=' Operator
 '^' Literal.String.Backtick
 '\${' Literal.String.Interpol
 'ECHO_CMD' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\$\$' Name.Variable
 'f' Text
 '' Text.Whitespace
 '|' Punctuation

```

''      Text.Whitespace
'${'   Literal.String.Interpol
'SED'   Name.Variable
'}'    Literal.String.Interpol
''      Text.Whitespace
'-E'   Text
''      Text.Whitespace
'${'   Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'    Literal.String.Interpol
`      Literal.String.Backtick
';'
      Punctuation
''      Text.Whitespace
'\\n'  Literal.String.Escape

'\t'   Text.Whitespace
'cd'   Name.Builtin
''      Text.Whitespace
'${'   Literal.String.Interpol
'PREFIX' Name.Variable
'}'    Literal.String.Interpol
'/bin' Text
''      Text.Whitespace
'&&'   Operator
''      Text.Whitespace
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'    Literal.String.Interpol
''      Text.Whitespace
'-f'   Text
''      Text.Whitespace
'$$'   Name.Variable
'TARGET' Text
''      Text.Whitespace
'$$'   Name.Variable
'f'    Text
';'    Punctuation
''      Text.Whitespace
'\\n'  Literal.String.Escape

'\t'   Text.Whitespace
'done' Keyword
'\n'   Text.Whitespace

'.endif\n' Comment.Preproc

'\n'   Text.Whitespace

```

'if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t' Text.Whitespace
'@' Text
'\${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\${' Literal.String.Interpol
'TOOLS DIR' Name.Variable
'}' Literal.String.Interpol
'\n\t' Text.Whitespace
'@cd' Text
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_WKSR C' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
' ' Text.Whitespace
'\${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-cf' Text
' ' Text.Whitespace
'-' Text
' ' Text.Whitespace
'Tools' Text
' ' Text.Whitespace
'|' Punctuation
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'(' Operator
'cd' Name.Builtin
' ' Text.Whitespace
'\${'
Literal.String.Interpol
'TOOLS DIR' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
' ' Text.Whitespace
'\${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol

```

''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
')'     Operator
'\n\t'  Text.Whitespace
'@'     Text
'${'    Literal.String.Interpol
'MKDIR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'DEMODIR' Name.Variable
'}'     Literal.String.Interpol
'\n\t'  Text.Whitespace
'@cd'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Demo' Text
';'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-cf'   Text
''      Text.Whitespace
'-'     Text
''      Text.Whitespace
'*'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'('     Operator
'cd'   Name.Builtin
''      Text.Whitespace
'${'    Literal.String.Interpol
'DEMODIR' Name.Variable
'}'     Literal.String.Interpol
';'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol

```

```

'TAR'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
')'     Operator
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n\t'  Text.Whitespace
'@'     Text
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'
    Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
# Step 1 of 3: from Hakaru to Maple LO (linear operator)

toLO := module()
export
ModuleApply := proc(m, $)
    local h;
    h := gensym('h');
    _Env_HakaruSolve := false;
    LO(h, integrate(m, h, []))
end proc;

export
integrate := proc(m, h, loops :: list(name = range) := [], $)
    local x, n, i, res, l, br, m0;

    if m :: known_continuous then
        integrate_known(Int, Ints, 'xx', m, h, loops)
    elif m :: known_discrete then
        integrate_known(Sum, Sums, 'kk', m, h, loops)
    elif m :: 'Ret(anything)' then
        applyintegrand(h, mk_ary(op(1,m), loops))
    elif m :: 'Bind(anything, name, anything)' then
        res := eval(op(3,m), op(2,m) = mk_idx(op(2,m), loops));
        res := eval(Integrand(op(2,m), 'integrate'(res, x, loops)), x=h);
    end if;
end proc;

```

```

integrate(op(1,m), res, loops);
elif m :: 'specfunc(Msum)' and (nops(loops) = 0 or nops(m) = 1) then
  `+`(op(map(integrate, [op(m)], h, loops)))
elif m :: 'Weight(anything, anything)' then
  foldl(product,
op(1,m), op(loops)) * integrate(op(2,m), h, loops)
elif m :: t_pw_or_part then
  Partition:-AppPartOrPw
    ( proc(p)
      if not Partition:-ConditionsDepend(p, lhs~(loops)) then
        Partition:-Pmap(z->integrate(z,h,loops),p)
      end if;
    end proc
    , m, ['no_split_disj']);
elif m :: t_case and not depends(op(1,m), map(lhs, loops)) then
  subsop(2=map(proc(b :: Branch(anything, anything))
    eval(subsop(2='integrate'(op(2,b), x, loops),b), x=h)
  end proc,
  op(2,m)),
  m);
elif m :: 'LO(name, anything)' then
  eval(op(2,m), op(1,m) = h)
elif m :: 'Plate(nonnegint, name, anything)' then
  # Unroll Plate when the bound is known. We unroll Plate here (instead
  # of unrolling Ints in reduce, for example) because we have no other
  # way to integrate certain Plates, namely those whose
bodies' control
  # flows depend on the index.
  x := mk_sym('pp', h);
  x := [seq(cat(x,i), i=0..op(1,m)-1)];
  if op(1,m) = 0 then
    res := undefined;
  else
    if op(1,m) = 1 then
      res := op(1,x);
    else
      res := idx(x,op(2,m));
  #   res := piecewise(seq(op([op(2,m)=i-1, op(i,x)], i=2..op(1,m)),
  #   op(1,x));
    end if;
    res := mk_idx(res, loops);
  end if;
  res := applyintegrand(h, mk_ary('ary'(op(1,m), op(2,m), res), loops));
  for i from op(1,m) to 1 by -1 do
    res := integrate(eval(op(3,m), op(2,m)=i-1),
      Integrand(op(i,x), res), loops);
  end do;
  res

```

```

elif m :: 'Plate(anything, name, anything)' then
  integrate(op(3,m), h, [op(2,m)=0..op(1,m)-1, op(loops)])
elif m :: 'Context(anything, anything)' then
  applyop(integrate, 2, m, h, loops)
elif h :: applicable then
  x := gensym('xa');
  'integrate'(m, Integrand(x,
h(x)), loops)
else
  'procname(_passed)'
end if
end proc;

```

```

local
integrate_known := proc(make, makes, var, m, h, loops :: list(name=range), $)
  local x, dens, bds;
  x := mk_sym(var, h);
  dens := density[op(0,m)](op(m));
  bds := bounds[op(0,m)](op(m));
  if loops = [] then
    make(dens(x) * applyintegrand(h, x), x = bds);
  else
    makes(foldl(product, dens(mk_idx(x,loops)), op(loops))
      * applyintegrand(h, x),
      x, bds, loops)
  end if;
end proc;
end module; #toLO

```

'# Teach Maple (through depends and eval) about our new binding forms.\n' Comment.Single

'# forall bind from 1st arg to 2nd arg.\n' Comment.Single

'# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element\n' Comment.Single

'# of the 4th arg to the other elements on the left and to the 3rd arg.\n' Comment.Single

\n' Text.Whitespace

^depends/forall` Name

`` Text.Whitespace

':=' Operator

`` Text.Whitespace

'proc' Keyword

(' Punctuation

'bvar' Name

;' Operator

`` Text.Whitespace

```

'pred'   Name
';'      Operator
''       Text.Whitespace
'x'      Name
';'      Operator
''       Text.Whitespace
'$'      Operator
')'      Punctuation
'\n '    Text.Whitespace
'depends' Name
'('      Punctuation
'pred'   Name
';'      Operator
''       Text.Whitespace
'x'      Name
''       Text.Whitespace
'minus'
  Keyword
''       Text.Whitespace
'convert' Name.Builtin
'('      Punctuation
'bvar'   Name
';'      Operator
''       Text.Whitespace
''''     Punctuation
'set'    Name
''''     Punctuation
'))'     Punctuation
'\n'     Text.Whitespace

'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
':'      Operator
'\n\n'   Text.Whitespace

'^depends/Ints`' Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
'body'   Name
';'      Operator
''       Text.Whitespace
'bvar'   Name
';'      Operator
''       Text.Whitespace

```

```

'rng'    Name
','      Operator
''       Text.Whitespace
'loops'  Name
','      Operator
''       Text.Whitespace
'x'      Name
','      Operator
''       Text.Whitespace
'y'      Name
','      Operator
''       Text.Whitespace
'$'
        Operator
')'      Punctuation
'\n '    Text.Whitespace
'local'  Keyword
''       Text.Whitespace
'xx'     Name
','      Operator
''       Text.Whitespace
'i'      Name
','      Punctuation
'\n '    Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'nargs'  Name
''       Text.Whitespace
'='      Operator
''       Text.Whitespace
'5'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'xx'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'x'      Name
','      Punctuation
''       Text.Whitespace
'# y is unused and x lists the variables to look for\n' Comment.Single
''       Text.Whitespace
'else'   Keyword
'\n '    Text.Whitespace
'xx'     Name
''       Text.Whitespace

```

```
'::=' Operator
'' Text.Whitespace
'y'
  Name
';' Punctuation
'' Text.Whitespace
'# x is some KB and y lists the variables to look for\n' Comment.Single
```

```
' ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'depends' Name
 '(' Punctuation
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'y' Name
 ')' Punctuation
 '' Text.Whitespace
'then' Keyword
'' Text.Whitespace
'return' Keyword
'' Text.Whitespace
'true' Name
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
"# don't remove bvar from xx!\n" Comment.Single
```

```
' ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'depends' Name
 '(' Punctuation
'body'
  Name
';' Operator
'' Text.Whitespace
'xx' Name
'' Text.Whitespace
```

'minus' Keyword
 '' Text.Whitespace
 '{' Punctuation
 'bvar' Name
 '})' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'true' Name
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'loops' Name
 ')' Punctuation
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-'

 Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 'i' Name
 ';' Operator

'2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'xx' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'true' Name
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'xx' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'xx'
 Name
 '' Text.Whitespace
 'minus' Keyword
 '' Text.Whitespace
 '{' Punctuation
 'op' Name.Builtin
 '([' Punctuation
 'i' Name
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ')}';' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'depends' Name
 '(' Punctuation

'rng' Name
' Operator
' Text.Whitespace
'xx' Name
)' Punctuation
\n' Text.Whitespace

'end' Keyword
' Text.Whitespace
'proc' Keyword
' Operator
\n' Text.Whitespace

^depends/Sums` Name
' Text.Whitespace
':=` Operator
' Text.Whitespace
'eval' Name.Builtin
'(Punctuation
^depends/Ints` Name
)'
Punctuation
' Operator
\n' Text.Whitespace

^depends/ints` Name
' Text.Whitespace
':=` Operator
' Text.Whitespace
'eval' Name.Builtin
'(Punctuation
^depends/Ints` Name
)' Punctuation
' Operator
\n' Text.Whitespace

^depends/sums` Name
' Text.Whitespace
':=` Operator
' Text.Whitespace
'eval' Name.Builtin
'(Punctuation
^depends/Ints` Name
)' Punctuation
' Operator
\n\n' Text.Whitespace

^eval/forall` Name

'' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '
 ' Text.Whitespace
 'bvar' Name
 ';' Operator
 '' Text.Whitespace
 'pred' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'bvar' Name
 ';' Operator
 '' Text.Whitespace
 'pred' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'e' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ')(' Punctuation
 'BindingTools' Name

```

':'      Operator
'-'      Operator
'generic_evalat' Name
'('      Punctuation
'bvar'   Name
';'      Operator
''       Text.Whitespace
'pred'   Name
';'
      Operator
''       Text.Whitespace
'eqs'    Name
'))'     Punctuation
'\n'     Text.Whitespace

'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
':'      Operator
'\n\n'   Text.Whitespace

`eval/Ints` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
'e'      Name
';'      Operator
''       Text.Whitespace
'eqs'    Name
';'      Operator
''       Text.Whitespace
'$'      Operator
')'      Punctuation
'\n '    Text.Whitespace
'local'  Keyword
''       Text.Whitespace
'body'   Name
';'      Operator
''       Text.Whitespace
'bvar'   Name
';'      Operator
''       Text.Whitespace
'rng'    Name
';'      Operator
''       Text.Whitespace
'loops'  Name

```

```

';'      Operator
''       Text.Whitespace
'n'     Name
';'     Operator
'       Text.Whitespace
'       Text.Whitespace
'i'     Name
';'     Punctuation
'\n '   Text.Whitespace
'body'  Name
';'     Operator
''      Text.Whitespace
'bvar'  Name
';'     Operator
''      Text.Whitespace
'rng'   Name
';'     Operator
''      Text.Whitespace
'loops' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
'..'    Punctuation
'4'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'e'     Name
');'    Punctuation
'\n '   Text.Whitespace
'bvar'  Name
';'     Operator
''      Text.Whitespace
'body'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'BindingTools' Name
':'     Operator
'-'     Operator
'generic_evalat' Name
'('     Punctuation
'bvar'  Name
'       Name
';'     Operator
''      Text.Whitespace

```

'body' Name
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ')(' Punctuation
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bvar' Name
 ';' Operator
 '\n ' Text.Whitespace
 'BindingTools' Name
 ':' Operator
 '-' Operator
 'generic_evalatstar' Name
 '(' Punctuation
 'rng' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '5' Literal.Number.Integer
 '..' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ';' Operator
 'e' Name

'))' Punctuation
'\n' Text.Whitespace

'end' Keyword
' ' Text.Whitespace
'proc' Keyword
':' Operator
'\n' Text.Whitespace

^eval/Sums`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Ints`' Name
)' Punctuation
':' Operator
'\n' Text.Whitespace

^eval/int`s`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Ints`' Name
)' Punctuation
':' Operator
'\n' Text.Whitespace

^eval/sums`' Name
' ' Text.Whitespace
':= '
Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Ints`' Name
)' Punctuation
':' Operator
'\n\n' Text.Whitespace

^eval/Int``' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'proc' Keyword

'(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'bvar' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 ':=' Operator
 '
 ' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 '..' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'e' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'name' Name
 '' Text.Whitespace
 'then' Keyword

\n ' Text.Whitespace
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'BindingTools' Name
 ':' Operator
 '-' Operator
 'generic_evalat' Name
 '(' Punctuation
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'eqs'
 Name
 ');' Punctuation
 \n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '^=' Name
 '' Text.Whitespace
 'then' Keyword
 \n ' Text.Whitespace
 'bvar' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'lhs' Name.Builtin
 '(' Punctuation
 'bound' Name
 ');' Punctuation
 \n ' Text.Whitespace
 'bvar' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 '' Text.Whitespace
 ':=' Operator

```

''      Text.Whitespace
'BindingTools' Name
':'      Operator
'-'      Operator
'generic_evalat' Name
'('      Punctuation
'bvar'   Name
','      Operator
''      Text.Whitespace
'body'   Name
','      Operator
''      Text.Whitespace
'eqs'
      Name
');'     Punctuation
'\n '    Text.Whitespace
'bound'  Name
''      Text.Whitespace
':='     Operator
''      Text.Whitespace
'bvar'   Name
''      Text.Whitespace
'='      Operator
''      Text.Whitespace
'eval'   Name.Builtin
'('      Punctuation
'rhs'    Name.Builtin
'('      Punctuation
'bound'  Name
')'      Punctuation
','      Operator
''      Text.Whitespace
'eqs'    Name
');'     Punctuation
'\n '    Text.Whitespace
'else'   Keyword
'\n '    Text.Whitespace
'body'   Name
','      Operator
''      Text.Whitespace
'bound'  Name
''      Text.Whitespace
':='     Operator
''      Text.Whitespace
'BindingTools' Name
':'      Operator
'-'      Operator
'generic_evalatstar' Name

```

```

 '('      Punctuation
 'body'   Name
 ';'      Operator
 ''       Text.Whitespace
 'bound'  Name
 ';'
 Operator
 ''       Text.Whitespace
 'eqs'    Name
 ');'     Punctuation
 '\n '    Text.Whitespace
 'end'    Keyword
 ''       Text.Whitespace
 'if'     Keyword
 ';'      Punctuation
 '\n '    Text.Whitespace
 'eval'   Name.Builtin
 '('      Punctuation
 'op'     Name.Builtin
 '('      Punctuation
 '0'      Literal.Number.Integer
 ';'      Operator
 'e'      Name
 ')'      Punctuation
 ';'      Operator
 ''       Text.Whitespace
 'eqs'    Name
 ')(('   Punctuation
 'body'   Name
 ';'      Operator
 ''       Text.Whitespace
 'bound'  Name
 ';'      Operator
 ''       Text.Whitespace
 'op'     Name.Builtin
 '('      Punctuation
 'eval'   Name.Builtin
 '(['    Punctuation
 'op'     Name.Builtin
 '('      Punctuation
 '3'      Literal.Number.Integer
 '..'     Punctuation
 '-'      Operator
 '1'      Literal.Number.Integer
 ';'      Operator
 'e'
 Name
 ')]'    Punctuation

```

';' Operator
' ' Text.Whitespace
'eqs' Name
')))' Punctuation
'\n' Text.Whitespace

'end' Keyword
' ' Text.Whitespace
'proc' Keyword
';' Operator
'\n' Text.Whitespace

^eval/Sum`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int`' Name
)' Punctuation
';' Operator
'\n' Text.Whitespace

^eval/Product`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int`' Name
)' Punctuation
';' Operator
'\n' Text.Whitespace

^eval/int`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int`' Name
)'
Punctuation
';' Operator
'\n' Text.Whitespace

^eval/sum`' Name
' ' Text.Whitespace

':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'^eval/Int`' Name
)' Punctuation
'.' Operator
'\n' Text.Whitespace

'^eval/product`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'^eval/Int`' Name
)' Punctuation
'.' Operator
'\n\n' Text.Whitespace

#####\n' Comment.Single

'\n' Text.Whitespace

'Loop' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'module' Keyword
' ' Text.Whitespace
'()' Punctuation
'\n ' Text.Whitespace
'option' Keyword
' ' Text.Whitespace
'package' Name
';

Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'intssums' Name
'.' Operator
' ' Text.Whitespace
'enter_pieewise' Name
'.' Operator
' ' Text.Whitespace
'wrap' Name
'.' Operator

```

\n      ' Text.Whitespace
't_peel'  Name
';       Operator
''       Text.Whitespace
'do_peel' Name
';       Operator
''       Text.Whitespace
'do_split' Name
';       Operator
''       Text.Whitespace
'do_graft' Name
';       Operator
''       Text.Whitespace
'do_rebase_lower' Name
';       Operator
''       Text.Whitespace
'do_rebase_upper' Name
';       Operator
\n      ' Text.Whitespace
'Binder'  Name
';       Operator
''       Text.Whitespace
'Stmt'    Name
';       Operator
''       Text.Whitespace
't_binder' Name
';       Operator
''       Text.Whitespace
't_stmt'   Name
';
          Operator
''       Text.Whitespace
't_exp'   Name
';       Operator
\n      ' Text.Whitespace
'ModuleLoad' Name
';       Punctuation
\n      ' Text.Whitespace
'export'  Keyword
\n      ' Text.Whitespace
'# These first few are smart constructors (for themselves):\n' Comment.Single

'      ' Text.Whitespace
'int's'   Name
';       Operator
''       Text.Whitespace
'sums'    Name
';       Operator

```

```

\n      Text.Whitespace
'# while these are "proper functions"\n' Comment.Single

      Text.Whitespace
'mk_HArray' Name
';      Operator
''      Text.Whitespace
'genLoop' Name
';      Operator
''      Text.Whitespace
'unproducts' Name
';      Operator
''      Text.Whitespace
'unproduct' Name
';      Operator
\n      Text.Whitespace
'peel'   Name
';      Operator
''      Text.Whitespace
'split'  Name
';      Operator
''

      Text.Whitespace
'graft'  Name
';      Operator
''      Text.Whitespace
'rebase_lower' Name
';      Operator
''      Text.Whitespace
'rebase_upper' Name
';      Operator
''      Text.Whitespace
'Print'  Name
';      Punctuation
\n      Text.Whitespace
'# these names are not assigned (and should not be). But they are\n' Comment.Single

''      Text.Whitespace
'# used as global names, so document that here.\n' Comment.Single

''      Text.Whitespace
'global' Keyword
''      Text.Whitespace
'Ints'   Name
';      Operator
''      Text.Whitespace
'Sums'   Name
';      Operator

```

```

''      Text.Whitespace
'csgn'  Name
';'     Operator
''      Text.Whitespace
'sum'   Name
';'     Operator
''      Text.Whitespace
'signum' Name
';'     Punctuation
'\n '   Text.Whitespace
'uses'  Keyword
''      Text.Whitespace
'Hakaru'
      Name
';'     Operator
''      Text.Whitespace
'KB'    Name
';'     Operator
''      Text.Whitespace
'Utilities' Name
';'     Punctuation
'\n\n ' Text.Whitespace
't_binder' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
''''    Punctuation
'Binder' Name
'('     Punctuation
'identical' Name
'('     Punctuation
'product' Name
';'     Operator
''      Text.Whitespace
'Product' Name
';'     Operator
''      Text.Whitespace
'sum'   Name
';'     Operator
''      Text.Whitespace
'Sum'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
't_kb'  Name
')'     Punctuation
''''    Punctuation
';'     Punctuation

```

\n ' Text.Whitespace
 't_stmt' Name
 ' ' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 "" Punctuation
 'Stmt'
 Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'list' Name
 ';' Operator
 '' Text.Whitespace
 'list' Name
 ')' Punctuation
 "" Punctuation
 ';' Punctuation
 \n ' Text.Whitespace
 't_exp' Name
 ' ' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 "" Punctuation
 '{' Punctuation
 'Stmt' Name
 '(' Punctuation
 'identical' Name
 '(' Punctuation
 'exp' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[]' Punctuation
 ';' Operator
 \n ' Text.Whitespace
 'Stmt' Name
 '(' Punctuation
 'identical' Name
 '(' Punctuation
 '^' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace

'[' Punctuation
 'anything' Name
 ']' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[]}' Punctuation
 '''' Punctuation
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'ints' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '()' Punctuation
 '' Text.Whitespace
 'intssums' Name
 '(' Punctuation
 '''' Punctuation
 'ints' Name
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 'int' Name
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 '_passed' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'sums' Name
 '' Text.Whitespace
 ':=' Operator
 ''
 Text.Whitespace
 'proc' Keyword
 '()' Punctuation
 '' Text.Whitespace
 'intssums' Name
 '(' Punctuation
 '''' Punctuation

'sums' Name
'''' Punctuation
',' Operator
'' Text.Whitespace
'''' Punctuation
'sum' Name
'''' Punctuation
',' Operator
'' Text.Whitespace
'_passed' Name
')' Punctuation
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
',' Punctuation
'\n\n ' Text.Whitespace
'Print' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'kind' Name
'::' Operator
'identical' Name
'(' Punctuation
'Ints' Name
',' Operator
'Sums' Name
',' Operator
'ints' Name
',' Operator
'sums' Name
')' Punctuation
','
Operator
'e' Name
',' Operator
'v' Name
'::' Operator
'name' Name
',' Operator
'r0' Name
'::' Operator
'range' Name
',' Operator
'rs' Name

'::' Operator
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'k' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'k' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'StringTools' Name
 '[' Punctuation
 'Capitalize' Name
 ']' Punctuation
 'StringTools' Name
 '[' Punctuation
 'Chop' Name
 ']' Punctuation
 'convert' Name.Builtin
 '(' Punctuation
 'kind' Name
 ';' Operator
 'string' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'k' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'parse' Name.Builtin
 '(' Punctuation
 'cat' Name.Builtin
 '(' Punctuation
 ""`print/"" Literal.String
 ';' Operator
 'eval' Name.Builtin
 '(' Punctuation

'k' Name
 ')' Punctuation
 ';' Operator
 "" Literal.String
 ');' Punctuation
 '\n ' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'k' Name
 ')((' Punctuation
 'e' Name
 ';' Operator
 'v' Name
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'rs' Name
 ')]' Punctuation
 '=' Operator
 'r0' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 '' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'intssums' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'makes' Name
 '::' Operator
 'name' Name
 ';' Operator
 '' Text.Whitespace
 'make' Name
 '::' Operator
 'name' Name
 ';' Operator
 '\n ' Text.Whitespace
 'e' Name
 '::' Operator
 'anything' Name
 ';' Operator

```

''      Text.Whitespace
'x'     Name
'::'    Operator
'name'   Name
';'     Operator
''      Text.Whitespace
'rr'    Name
'::'    Operator
'range'  Name
';'     Operator
''      Text.Whitespace
'll'    Name
'::'    Operator
'list'  Name
'('     Punctuation
'name'   Name
'='     Operator
'range'  Name
')'     Punctuation
';'     Operator
'\n
      ' Text.Whitespace
'kb'    Name
'::'    Operator
't_kb'  Name
':='    Operator
'empty'  Name
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local'  Keyword
''      Text.Whitespace
't'     Name
';'     Operator
''      Text.Whitespace
'r'     Name
';'     Operator
''      Text.Whitespace
'l'     Name
';'     Operator
''      Text.Whitespace
'kb2'   Name
';'     Operator
''      Text.Whitespace
'w0'    Name
';'     Operator

```

```

''      Text.Whitespace
'pp'   Name
';'    Operator
''      Text.Whitespace
'i'    Name
';'    Punctuation
'\n '  Text.Whitespace
't'    Name
''      Text.Whitespace
':='   Operator
''      Text.Whitespace
`if`   Name
'('    Punctuation
'make' Name
'='
      Operator
'int'  Name
';'    Operator
''      Text.Whitespace
'HReal' Name
'('    Punctuation
'open_bounds' Name
'('    Punctuation
'rr'   Name
'))'   Punctuation
';'    Operator
''      Text.Whitespace
'HInt' Name
'('    Punctuation
'closed_bounds' Name
'('    Punctuation
'rr'   Name
'))';' Punctuation
'\n '  Text.Whitespace
'r'    Name
';'    Operator
''      Text.Whitespace
'I'    Name
';'    Operator
''      Text.Whitespace
'kb2'  Name
''      Text.Whitespace
':='   Operator
''      Text.Whitespace
'genLoop' Name
'('    Punctuation
'rr'   Name
';'    Operator

```

```

''      Text.Whitespace
'II'   Name
';'    Operator
''     Text.Whitespace
'kb'   Name
';'    Operator
''     Text.Whitespace
''''   Punctuation
'Integrand' Name
''''
      Punctuation
'('    Punctuation
'x'    Name
';'    Operator
'e'    Name
'));'  Punctuation
'\n '  Text.Whitespace
'w0'   Name
';'    Operator
''     Text.Whitespace
'pp'   Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'unproducts' Name
'('    Punctuation
'e'    Name
';'    Operator
''     Text.Whitespace
'x'    Name
';'    Operator
''     Text.Whitespace
'I'    Name
';'    Operator
''     Text.Whitespace
'kb2'  Name
');'   Punctuation
'\n '  Text.Whitespace
'if'   Keyword
''     Text.Whitespace
'depends' Name
'('    Punctuation
'w0'   Name
';'    Operator
''     Text.Whitespace
'x'    Name
')'    Punctuation
''     Text.Whitespace

```

'then' Keyword
 '\n ' Text.Whitespace
 "" Punctuation
 'makes'
 Name
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ')' Punctuation
 "" Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 'pp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 "" Punctuation
 'make' Name
 "" Punctuation
 '(' Punctuation
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '=' Operator
 'r' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 'l' Name
 '' Text.Whitespace
 'do'
 Keyword
 '' Text.Whitespace

```

'pp'      Name
''        Text.Whitespace
':='     Operator
''        Text.Whitespace
''''     Punctuation
'product' Name
''''     Punctuation
'('      Punctuation
'pp'     Name
';'      Operator
''        Text.Whitespace
'i'      Name
')'      Punctuation
''        Text.Whitespace
'end'    Keyword
''        Text.Whitespace
'do'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'NewSLO' Name
':'      Operator
'-'      Operator
'simplify_factor_assuming' Name
'('      Punctuation
'w0'     Name
''        Text.Whitespace
'*'      Operator
''        Text.Whitespace
'pp'     Name
';'      Operator
''        Text.Whitespace
'kb'     Name
');'     Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''        Text.Whitespace
'if'     Keyword
'\n '    Text.Whitespace
'end'

        Keyword
''        Text.Whitespace
'proc'   Keyword
';'      Punctuation
'\n\n '  Text.Whitespace
'mk_HArray' Name
''        Text.Whitespace
':='     Operator
''        Text.Whitespace

```

'proc' Keyword
 '(' Punctuation
 't' Name
 '::' Operator
 't_type' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '::' Operator
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 't'
 Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 'do' Keyword
 '' Text.Whitespace
 'res' Name
 '' Text.Whitespace

':=' Operator
 '' Text.Whitespace
 'HArray' Name
 '(' Punctuation
 'res' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'genLoop' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '('
 Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '::' Operator
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 '::' Operator
 't_kb' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'kb1' Name
 ';' Operator

```

''      Text.Whitespace
'rng'   Name
';'     Operator
''      Text.Whitespace
'ind'   Name
';'     Operator
''      Text.Whitespace
'do_subst' Name
';'     Operator
''      Text.Whitespace
'i'     Name
';'     Punctuation
'\n '   Text.Whitespace
'kb1'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'kb'    Name
';'     Punctuation
'\n
'      Text.Whitespace
'rng'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'table' Name.Builtin
'());' Punctuation
'\n '   Text.Whitespace
'ind'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'table' Name.Builtin
'());' Punctuation
'\n '   Text.Whitespace
'do_subst' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'e'     Name
''      Text.Whitespace
'-'>'   Operator
''      Text.Whitespace
'foldl' Name
'(((   Punctuation
'e'     Name
';'     Operator
'eq'    Name

```

')' Punctuation
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 'lhs'
 Name.Builtin
 '(' Punctuation
 'eq' Name
 ')' Punctuation
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ')' Punctuation
 '=' Operator
 'rhs' Name.Builtin
 '(' Punctuation
 'eq' Name
 ')))' Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'entries' Name.Builtin
 '(' Punctuation
 'ind' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'pairs' Name
 "" Punctuation
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace

'nops' Name.Builtin
 '(' Punctuation
 'loops' Name
 ')' Punctuation
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'rng' Name
 '[' Punctuation
 'i' Name
 ']' Punctuation
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'do_subst' Name
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 'i' Name
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'ind' Name
 '[' Punctuation
 'i' Name
 ']' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ''
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'genType' Name

'(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 'i' Name
 ';' Operator
 'l' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'HInt' Name
 '(' Punctuation
 'closed_bounds' Name
 '(' Punctuation
 'rng' Name
 '[' Punctuation
 'i' Name
 '])' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 '_rest' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_subst' Name
 '(' Punctuation
 'e' Name
 ')' Punctuation
 Punctuation
 ';' Operator
 '' Text.Whitespace
 'zip' Name
 '(' Punctuation
 '^=' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'entries' Name.Builtin
 '(' Punctuation

'ind' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'nolist' Name
 "" Punctuation
 ')]' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 '[' Punctuation
 'entries' Name.Builtin
 '(' Punctuation
 'rng' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'nolist' Name
 "" Punctuation
 ')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'unproducts'
 Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'w' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '::' Operator
 'name' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '::' Operator
 'list' Name
 '(' Punctuation
 'name' Name

'=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 '::' Operator
 't_kb' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'w0' Name
 ';' Operator
 '' Text.Whitespace
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'j' Name
 ';' Operator
 '' Text.Whitespace
 'w1'
 Name
 ';' Operator
 '' Text.Whitespace
 'w2' Name
 ';' Operator
 '' Text.Whitespace
 'loop' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'w0' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ';' Punctuation
 '\n ' Text.Whitespace
 'pp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'w' Name
 ';' Punctuation
 '\n ' Text.Whitespace

```

'for'    Keyword
''       Text.Whitespace
'j'      Name
''       Text.Whitespace
'from'   Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'loops'  Name
')'      Punctuation
''       Text.Whitespace
'to'     Keyword
''       Text.Whitespace
'1'      Literal.Number.Integer
''       Text.Whitespace
'by'     Keyword
''       Text.Whitespace
'-'      Operator
'1'      Literal.Number.Integer
''       Text.Whitespace
'do'     Keyword
'\n'     Text.Whitespace
'w1'     Name
','      Operator
''       Text.Whitespace
'pp'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'unproduct' Name
'('      Punctuation
'pp'     Name
','      Operator
''       Text.Whitespace
'x'      Name
','      Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'j'      Name
','      Operator
'loops'  Name
')'      Punctuation
','      Operator
''       Text.Whitespace

```

```

'['      Punctuation
','      Operator
''       Text.Whitespace
'^*`'    Name
','      Operator
''       Text.Whitespace
'kb'     Name
','      Operator
'        Text.Whitespace
'kb'     Name
'));'    Punctuation
'\n     ' Text.Whitespace
'# separate out each of the factors in w1, as they might have different\n' Comment.Single

'      ' Text.Whitespace
'# variable dependencies, which can be exploited by other routines\n' Comment.Single

'      ' Text.Whitespace
'w2'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'convert' Name.Builtin
'('      Punctuation
'w1'     Name
','      Operator
''       Text.Whitespace
''''     Punctuation
'list'   Name
''''     Punctuation
','      Operator
''       Text.Whitespace
''''     Punctuation
'^*`'    Name
''''     Punctuation
');'     Punctuation
'\n     ' Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'loop'   Name
''       Text.Whitespace
'in'     Keyword
''       Text.Whitespace
 '['     Punctuation
'op'     Name.Builtin
'('      Punctuation

```

'j' Name
 '+' Operator
 '1' Literal.Number.Integer
 '..' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ')]' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'w2' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'map' Name.Builtin
 '((' Punctuation
 'w' Name
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'product' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'w' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '≡' Operator
 'idx' Name
 '(' Punctuation
 'x' Name
 ';' Operator
 'lhs' Name.Builtin
 '(' Punctuation
 'loop'
 Name
 ')))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loop' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'w2' Name

```

');' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'do' Keyword
';' Punctuation
'\n ' Text.Whitespace
'w0' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'w0' Name
'' Text.Whitespace
'*' Operator
'' Text.Whitespace
'^*^' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'w2' Name
');)' Punctuation
'\n ' Text.Whitespace
'# w0 := w0 * foldl(product, w1, op(j+1..-1, loops));\n' Comment.Single

' ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'do' Keyword
';' Punctuation
'\n '
Text.Whitespace
'# Rewrite ... * piecewise(i<=kk-1, xs^2, 1)\n' Comment.Single

' ' Text.Whitespace
'# to ... * xs ^ (2*piecewise(i<=kk-1, 1))\n' Comment.Single

' ' Text.Whitespace
'# because the latter is easier to integrate and recognize with respect to xs\n' Comment.Single

' ' Text.Whitespace
'pp' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'for_poly' Name
'(' Punctuation
'pp' Name
';' Operator

```

```

''      Text.Whitespace
# TODO: move this rewrite into eval_factor (then remove for_poly?)?\n' Comment.Single

' '    Text.Whitespace
'proc' Keyword
''     Text.Whitespace
'('    Punctuation
'p'    Name
')'    Punctuation
'\n'   ' Text.Whitespace
'local' Keyword
''     Text.Whitespace
'n'    Name
';'    Operator
''     Text.Whitespace
's'    Name
';'    Operator
''

      Text.Whitespace
'r'    Name
';'    Punctuation
'\n'   ' Text.Whitespace
'if'   Keyword
''     Text.Whitespace
'p'    Name
''     Text.Whitespace
'::'   Operator
''     Text.Whitespace
'""'   Punctuation
'And'  Name
'('    Punctuation
'specfunc' Name
'('    Punctuation
'piecewise' Name.Builtin
')'    Punctuation
';'    Operator
''     Text.Whitespace
'anyfunc' Name
'('    Punctuation
'freeof' Name
'('    Punctuation
'x'    Name
')'    Punctuation
';'    Operator
''     Text.Whitespace
'anything' Name
';'    Operator
''     Text.Whitespace

```

'1' Literal.Number.Integer
 '))' Punctuation
 '"""' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' ' Text.Whitespace
 'n' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'indets'
 Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'p' Name
 ')' Punctuation
 ';' Operator
 'name' Name
 ');' Punctuation
 '\n' ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'p' Name
 ')' Punctuation
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '{' Punctuation
 '"""' Punctuation
 'exp' Name
 '(' Punctuation
 'anything' Name
 ')' Punctuation
 '"""' Punctuation
 ';' Operator
 '' Text.Whitespace
 '"""' Punctuation
 '^' Name
 '"""' Punctuation
 '(' Punctuation
 '"""' Punctuation

'freeof' Name
 "" Punctuation
 '('
 Punctuation
 'n' Name
 ')' Punctuation
 ';' Operator
 "" Punctuation
 'anything' Name
 "" Punctuation
 ')}' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 's' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'selectremove' Name.Builtin
 '(' Punctuation
 'depends' Name
 ';' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '-' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'p' Name
 ')' Punctuation
 ';' Operator
 "" Punctuation
 'list' Name
 "" Punctuation
 ','
 Operator
 "" Punctuation
 '^*^' Name
 "" Punctuation
 ')' Punctuation

```

';'      Operator
''       Text.Whitespace
'n'      Name
');'     Punctuation
'\n     ' Text.Whitespace
'subst'  Name.Builtin
'('      Punctuation
'-'      Operator
'1'      Literal.Number.Integer
''       Text.Whitespace
'='      Operator
''       Text.Whitespace
'^*`'    Name
'('      Punctuation
'piecewise' Name.Builtin
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
';'      Operator
'p'      Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
's'      Name
')))'    Punctuation
';'      Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'r'
Name
')))'    Punctuation
';'      Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'2'      Literal.Number.Integer
';'      Operator
'p'      Name
')))'    Punctuation
'\n     ' Text.Whitespace
'else'   Keyword
'\n     ' Text.Whitespace

```

's' Name
 ',' Operator
 '' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'selectremove' Name.Builtin
 '(' Punctuation
 'depends' Name
 ',' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ',' Operator
 'p' Name
 ')' Punctuation
 ',' Operator
 '''' Punctuation
 'list' Name
 '''' Punctuation
 ',' Operator
 '''' Punctuation
 '^*'

Name

'''' Punctuation
 ')' Punctuation
 ',' Operator
 '' Text.Whitespace
 'n' Name
 ');' Punctuation
 '\n' Text.Whitespace
 '^*\' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'r' Name
 '))' Punctuation
 '' Text.Whitespace
 '^' Operator
 '' Text.Whitespace
 'piecewise' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation

```

'1'    Literal.Number.Integer
','    Operator
'p'    Name
')'    Punctuation
','    Operator
''     Text.Whitespace
'1'    Literal.Number.Integer
')'    Punctuation
'\n'   ' Text.Whitespace
'*'    Operator
''     Text.Whitespace
'^if'  Name
'('    Punctuation
'nops' Name.Builtin
'('    Punctuation
's'    Name
')'    Punctuation
''     Text.Whitespace
'>'

Operator
''     Text.Whitespace
'0'    Literal.Number.Integer
','    Operator
''     Text.Whitespace
'piecewise' Name.Builtin
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
'1'    Literal.Number.Integer
','    Operator
'p'    Name
')'    Punctuation
','    Operator
''     Text.Whitespace
'^*^'  Name
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
's'    Name
'))'   Punctuation
','    Operator
''     Text.Whitespace
'1'    Literal.Number.Integer
')'    Punctuation
','    Operator
''     Text.Whitespace
'1'    Literal.Number.Integer
')'    Punctuation

```

```

\n      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
\n      ' Text.Whitespace
'else'  Keyword
\n      ' Text.Whitespace
'p'     Name
\n
      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
\n      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
');'    Punctuation
\n      ' Text.Whitespace
'w0'    Name
';'     Operator
''      Text.Whitespace
'pp'    Name
\n      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
\n\n    ' Text.Whitespace
'# Find [w1,pp] so that\n' Comment.Single

''      Text.Whitespace
'# wrap(heap,w,mode,kl,kb0)\n' Comment.Single

''      Text.Whitespace
'# = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)\n' Comment.Single

''      Text.Whitespace
'# making w1 depend on var as little as possible.\n' Comment.Single

''      Text.Whitespace
'# The flag "mode" should be `+` if "heap" contains an entry of the form\n' Comment.Single

''      Text.Whitespace
'# t_exp,
or `*` otherwise.\n' Comment.Single

''      Text.Whitespace

```

'unproduct' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'w' Name
',' Operator
'' Text.Whitespace
'var' Name
'::' Operator
'name' Name
',' Operator
'' Text.Whitespace
'loop' Name
'::' Operator
'(' Punctuation
'name' Name
'=' Operator
'range' Name
')' Punctuation
',' Operator
'\n' Text.Whitespace
'heap' Name
'::' Operator
'list' Name
',' Operator
'' Text.Whitespace
'mode' Name
'::' Operator
'identical' Name
'(' Punctuation
'^*^' Name
',' Operator
'^+^' Name
')' Punctuation
',' Operator
'\n' Text.Whitespace
'kb1' Name
'::'
Operator
't_kb' Name
',' Operator
'' Text.Whitespace
'kb0' Name
'::' Operator
't_kb' Name
',' Operator

```

''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'ind'   Name
';'     Operator
''      Text.Whitespace
'res'   Name
';'     Operator
''      Text.Whitespace
'dummy' Name
';'     Operator
''      Text.Whitespace
'kb'    Name
';'     Operator
''      Text.Whitespace
'kbThen' Name
';'     Operator
''      Text.Whitespace
'i'     Name
';'     Operator
''      Text.Whitespace
'w1'    Name
';'     Operator
''      Text.Whitespace
'pp'    Name
';'     Operator
''      Text.Whitespace
's'     Name
';'     Operator
''      Text.Whitespace
'r'     Name
';'
Operator
''      Text.Whitespace
'x'     Name
';'     Punctuation
'\n '   Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'depends' Name
'('     Punctuation
'w'     Name
';'     Operator

```

```

''      Text.Whitespace
'var'   Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
 '['    Punctuation
'wrap'  Name
'('     Punctuation
'heap'  Name
';'     Operator
''      Text.Whitespace
'w'     Name
';'     Operator
''      Text.Whitespace
'mode'  Name
';'     Operator
''      Text.Whitespace
'kb1'   Name
';'     Operator
''      Text.Whitespace
'kb0'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
']'
      Punctuation
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n    ' Text.Whitespace
"# The `..' (indices) of all occurrences of `idx(var,..)`\n" Comment.Single

' '     Text.Whitespace
'ind'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'map2'  Name
'('     Punctuation
'op'    Name.Builtin
';'     Operator
''      Text.Whitespace

```

```

'2'      Literal.Number.Integer
','      Operator
''       Text.Whitespace
'indets' Name.Builtin
'('      Punctuation
'w'      Name
','      Operator
''       Text.Whitespace
''''     Punctuation
'idx'    Name
'('      Punctuation
'identical' Name
'('      Punctuation
'var'    Name
')'      Punctuation
','      Operator
''       Text.Whitespace
'anything' Name
')'
    Punctuation
''''     Punctuation
')):'    Punctuation
'\n '    Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'ind'    Name
')'      Punctuation
''       Text.Whitespace
'='      Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'ind'    Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'ind'    Name
')):'    Punctuation
'\n '    Text.Whitespace
'# Make sure ind contains no bound variables before lifting it!\n' Comment.Single
' '      Text.Whitespace

```

So, check that "extract using indets" and "rename using eval" commute.\n' Comment.Single

```
' ' Text.Whitespace
's' Name
'' Text.Whitespace
':=' Operator
''
Text.Whitespace
'indets' Name.Builtin
'(' Punctuation
'ind' Name
';' Operator
'' Text.Whitespace
"" Punctuation
'name' Name
"" Punctuation
');' Punctuation
'\n ' Text.Whitespace
's' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'map' Name.Builtin
'(' Punctuation
'proc' Keyword
'(' Punctuation
'x' Name
';' Operator
'$' Operator
')' Punctuation
'' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'y' Name
';' Punctuation
'' Text.Whitespace
`if' Name
'(' Punctuation
'depends' Name
'(' Punctuation
'ind' Name
';' Operator
'x' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'x' Name
'≡' Operator
```

'y' Name
';' Operator
'' Text.Whitespace
'NULL' Name
')' Punctuation
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Operator
'' Text.Whitespace
's' Name
');' Punctuation
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'indets' Name.Builtin
'(' Punctuation
'eval' Name.Builtin
'(' Punctuation
'w' Name
';' Operator
'' Text.Whitespace
's' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'''' Punctuation
'idx' Name
'(' Punctuation
'identical' Name
'(' Punctuation
'var' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'anything' Name
')' Punctuation
'''' Punctuation
')' Punctuation
'\n ' Text.Whitespace
'≡' Operator
'' Text.Whitespace
'{' Punctuation
'idx' Name
'(' Punctuation

```

'var'    Name
','      Operator
''       Text.Whitespace
'eval'   Name.Builtin
'('      Punctuation
'ind'    Name
','      Operator
''       Text.Whitespace
's'      Name
'))}'    Punctuation
''       Text.Whitespace
'then'   Keyword
'\n     ' Text.Whitespace
"# use kb as a local context, and 'solve' for the innermost bound var\n" Comment.Single

```

```

'      ' Text.Whitespace
'# used in ind.\n' Comment.Single

```

```

'      ' Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'assert' Name
'('     Punctuation
'lhs'   Name.Builtin
'('     Punctuation
'loop'  Name
')'     Punctuation
'='     Operator
'ind'   Name
','     Operator
''      Text.Whitespace
'kb1'
      Name
');'    Punctuation
''      Text.Whitespace
"# BUG! bijectivity assumed!\n" Comment.Single

```

```

'      ' Text.Whitespace
"# if the assertion makes the KB false, it isn't needed(?)\n" Comment.Single

```

```

'      ' Text.Whitespace
'ASSERT' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
'('     Punctuation
'kb'    Name

```

```

';      Operator
''      Text.Whitespace
't_kb'  Name
')'     Punctuation
';      Operator
'\n    ' Text.Whitespace
'sprintf' Name
'('     Punctuation
"assert(%a,%a) produced a false KB!\n" Literal.String
';      Operator
''      Text.Whitespace
'lhs'   Name.Builtin
'('     Punctuation
'loop'  Name
')'     Punctuation
'='     Operator
'ind'   Name
';      Operator
'kb1'   Name
'))'    Punctuation
':'     Operator
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='
        Operator
''      Text.Whitespace
'subs'  Name.Builtin
'('     Punctuation
'idx'   Name
'('     Punctuation
'var'   Name
';      Operator
'ind'   Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'idx'   Name
'('     Punctuation
'var'   Name
';      Operator
'lhs'   Name.Builtin
'('     Punctuation
'loop'  Name
'))'    Punctuation
';      Operator
''      Text.Whitespace

```

'w' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'wrap' Name
 '(' Punctuation
 'heap' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb'
 Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subs' Name.Builtin
 '(' Punctuation
 'idx' Name
 '(' Punctuation
 'var' Name
 ';' Operator
 'lhs' Name.Builtin
 '(' Punctuation
 'loop' Name
 '))' Punctuation
 '≡' Operator
 'dummy' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace

```

'not'    Keyword
''       Text.Whitespace
'depends' Name
'('      Punctuation
'res'    Name
';'      Operator
''       Text.Whitespace
'var'    Name
')'      Punctuation
''       Text.Whitespace
'then'   Keyword
'\n     ' Text.Whitespace
'return'
        Keyword
''       Text.Whitespace
'['      Punctuation
'1'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'subs'   Name.Builtin
'('      Punctuation
'dummy'  Name
'='      Operator
'var'    Name
';'      Operator
''       Text.Whitespace
'res'    Name
')]'     Punctuation
'\n     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
'\n     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
'\n     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n     ' Text.Whitespace
'# distribute the unproduct over each part\n' Comment.Single

' '      Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'w'      Name

```

```

''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
'mode'
  Name
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'map'   Name.Builtin
'('     Punctuation
'unproduct' Name
';'     Operator
''      Text.Whitespace
'^if'   Name
'('     Punctuation
'mode'  Name
'='     Operator
'^*^'   Name
';'     Operator
''      Text.Whitespace
'list_of_mul' Name
'('     Punctuation
'w'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'['     Punctuation
'op'    Name.Builtin
'('     Punctuation
'w'     Name
')])'   Punctuation
';'     Operator
'\n    ' Text.Whitespace
'var'   Name
';'     Operator
''      Text.Whitespace
'loop'  Name
';'     Operator
''      Text.Whitespace
'heap'  Name
';'     Operator
''
      Text.Whitespace
'mode'  Name

```

```

','      Operator
''      Text.Whitespace
'kb1'   Name
','      Operator
''      Text.Whitespace
'kb0'   Name
');'    Punctuation
'\n '   Text.Whitespace
'return' Keyword
''      Text.Whitespace
'['     Punctuation
'^*`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'map2'  Name
'('     Punctuation
'op'    Name.Builtin
','     Operator
'1'     Literal.Number.Integer
','     Operator
'res'   Name
'))]'   Punctuation
','     Operator
''      Text.Whitespace
'^*`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'map2'  Name
'('     Punctuation
'op'    Name.Builtin
','     Operator
'2'     Literal.Number.Integer
','     Operator
'res'   Name
'))]'   Punctuation
'\n '   Text.Whitespace
'end'

      Keyword
''      Text.Whitespace
'if'    Keyword
','     Punctuation
'\n '   Text.Whitespace
'# for piecewise, just map right in (using KB for context tracking)\n' Comment.Single

' '     Text.Whitespace
'if'    Keyword

```

'' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 "" Punctuation
 'specfunc' Name
 '(' Punctuation
 'piecewise' Name.Builtin
 ')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'kb' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'kb1' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '
 ' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'w' Name
 ')' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'even' Name
 '' Text.Whitespace
 'then' Keyword

```

\n      ' Text.Whitespace
'kbThen'  Name
''      Text.Whitespace
':='     Operator
''      Text.Whitespace
'assert'  Name
'('      Punctuation
' '      Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'i'      Name
'-'      Operator
'1'      Literal.Number.Integer
';'      Operator
'w'      Name
')'      Punctuation
''      Text.Whitespace
';'      Operator
''      Text.Whitespace
'kb'     Name
');'     Punctuation
        Punctuation
\n      ' Text.Whitespace
# accumulate the rest, regardless\n' Comment.Single

'      ' Text.Whitespace
'kb'   Name
' '    Text.Whitespace
':='   Operator
''    Text.Whitespace
'assert' Name
'('    Punctuation
'Not'  Name
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
'i'    Name
'-'    Operator
'1'    Literal.Number.Integer
';'    Operator
'w'    Name
'))'   Punctuation
';'    Operator
''    Text.Whitespace
'kb'   Name
');'   Punctuation
\n\n   ' Text.Whitespace
# if kbThen is invalid, deal appropriately\n' Comment.Single

```

```

'      ' Text.Whitespace
'if'   Keyword
''     Text.Whitespace
'not'  Keyword
''     Text.Whitespace
'type' Name.Builtin
'('    Punctuation
'kbThen' Name
';'    Operator
't_kb' Name
')'    Punctuation
''

Text.Whitespace
'then' Keyword
''     Text.Whitespace
'next' Keyword
''     Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'if'   Keyword
';'    Punctuation
'\n\n' ' Text.Whitespace
'w1'   Name
'['    Punctuation
'i'    Name
']'    Punctuation
';'    Operator
''     Text.Whitespace
'pp'   Name
'['    Punctuation
'i'    Name
']'    Punctuation
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'op'   Name.Builtin
'('    Punctuation
'unproduct' Name
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
'i'    Name
';'    Operator
'w'    Name
')'    Punctuation
';'    Operator
'var'  Name

```

```

','      Operator
'loop'   Name
','      Operator
'heap'   Name
','      Operator
'mode'   Name
','      Operator
'kbThen'
        Name
','      Operator
'kb0'    Name
'));'    Punctuation
'\n     ' Text.Whitespace
"# if kb is inconsistent, we're done\n" Comment.Single

```

```

'      ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'type'  Name.Builtin
'('     Punctuation
'kb'    Name
','     Operator
't_kb'  Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'break' Keyword
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n     ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'i'     Name
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'nops'  Name.Builtin
'('     Punctuation
'w'     Name
')'     Punctuation
''      Text.Whitespace
'then'

```

Keyword

'\n' Text.Whitespace
'if' Keyword
' ' Text.Whitespace
'not' Keyword
' ' Text.Whitespace
'type' Name.Builtin
'(' Punctuation
'kb' Name
';' Operator
't_kb' Name
')' Punctuation
' ' Text.Whitespace
'then' Keyword
' ' Text.Whitespace
'next' Keyword
' ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'if' Keyword
';' Punctuation
'\n' Text.Whitespace
'w1' Name
'[' Punctuation
'i' Name
';' Operator
' ' Text.Whitespace
'pp' Name
'[' Punctuation
'i' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'unproduct' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
' ' Punctuation
'i' Name
';' Operator
'w' Name
')' Punctuation
';' Operator
'var' Name

```

','      Operator
'loop'   Name
','      Operator
'heap'   Name
','      Operator
'mode'   Name
','      Operator
'kb'     Name
' '      Text.Whitespace
','      Operator
'kb0'    Name
'))'     Punctuation
'\n '    Text.Whitespace
'end'    Keyword
' '      Text.Whitespace
'if'     Keyword
'\n '    Text.Whitespace
'end'    Keyword
' '      Text.Whitespace
'do'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'return' Keyword
' '      Text.Whitespace
'['      Punctuation
'^*^'    Name
'('      Punctuation
'entries' Name.Builtin
'('      Punctuation
'w1'     Name
','      Operator
''''     Punctuation
'nolist' Name
''''     Punctuation
'))'     Punctuation
','
Operator
' '      Text.Whitespace
'^*^'    Name
'('      Punctuation
'entries' Name.Builtin
'('      Punctuation
'pp'     Name
','      Operator
''''     Punctuation
'nolist' Name
''''     Punctuation
'))]'    Punctuation

```

```

\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'mode' Name
'' Text.Whitespace
'=' Operator
'' Text.Whitespace
'^*' Name
'' Text.Whitespace
'then' Keyword
\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'w' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'(' Punctuation
'anything' Name
'^' Operator
'feof' Name
'(' Punctuation
'var' Name
'))'
Punctuation
'' Text.Whitespace
'then' Keyword
\n ' Text.Whitespace
'return' Keyword
'' Text.Whitespace
'unproduct' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
';' Operator
'w' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'var' Name
';' Operator
'' Text.Whitespace

```

'loop' Name
 ';' Operator
 '\n' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'heap' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'Stmt' Name
 '(' Punctuation
 '^' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'w' Name
 ')))]' Punctuation
 ';' Operator
 '' Text.Whitespace
 '*' Name
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 '\n' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'exp' Name
 '(' Punctuation
 'anything' Name
 ')' Punctuation
 '' Text.Whitespace

'then' Keyword
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'unproduct' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'w' Name
 ')' Punctuation
 ';' Operator
 '
 ' Text.Whitespace
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'loop' Name
 ';' Operator
 '\n ' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'heap' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'Stmt' Name
 '(' Punctuation
 'exp' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[]]' Punctuation
 ';' Operator
 '' Text.Whitespace
 '^+' Name
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 '\n ' Text.Whitespace

```

'elif'    Keyword
''        Text.Whitespace
'w'       Name
''        Text.Whitespace
'::'      Operator
''
    Text.Whitespace
'('       Punctuation
'feof'    Name
'('       Punctuation
'var'     Name
')^'      Punctuation
'anything' Name
')'       Punctuation
''        Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'return'  Keyword
''        Text.Whitespace
'unproduct' Name
'('       Punctuation
'op'     Name.Builtin
'('       Punctuation
'2'      Literal.Number.Integer
';'      Operator
'w'      Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'var'    Name
';'      Operator
''       Text.Whitespace
'loop'   Name
';'      Operator
'\n      ' Text.Whitespace
'['      Punctuation
'op'     Name.Builtin
'('       Punctuation
'heap'   Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'Stmt'   Name
'('      Punctuation
'^^'     Name
';'      Operator
''

```

```

Text.Whitespace
'|'      Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'w'     Name
')]'    Punctuation
';'     Operator
''      Text.Whitespace
'[]]'   Punctuation
';'     Operator
''      Text.Whitespace
'^+'    Name
';'     Operator
''      Text.Whitespace
'kb1'   Name
';'     Operator
''      Text.Whitespace
'kb0'   Name
')'     Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n '   Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'mode'  Name
''      Text.Whitespace
'≡'     Operator
''      Text.Whitespace
'^+'    Name
''      Text.Whitespace
'and'   Keyword
Keyword
''      Text.Whitespace
'w'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
'^*^'   Name
''      Text.Whitespace

```

```

'then'    Keyword
'\n      ' Text.Whitespace
's'      Name
';'      Operator
''       Text.Whitespace
'r'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'selectremove' Name.Builtin
'('      Punctuation
'depends' Name
';'      Operator
''       Text.Whitespace
'w'      Name
';'      Operator
''       Text.Whitespace
'var'    Name
');'     Punctuation
'\n      ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
's'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
'^*`'    Name
''       Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'# Nonlinear %1 (time to reread kiselyov-lifted?)\n'
Comment.Single

'      ' Text.Whitespace
'else'   Keyword
'\n      ' Text.Whitespace
'return' Keyword
''       Text.Whitespace
'unproduct' Name
'('      Punctuation
's'      Name
';'      Operator
''       Text.Whitespace
'var'    Name
';'      Operator
''       Text.Whitespace
'loop'   Name
';'      Operator

```

```

\n          ' Text.Whitespace
'['        Punctuation
'op'       Name.Builtin
'('        Punctuation
'heap'     Name
')'        Punctuation
';'        Operator
''         Text.Whitespace
'Stmt'     Name
'('        Punctuation
'^*`'      Name
';'        Operator
''         Text.Whitespace
'['        Punctuation
';'        Operator
''         Text.Whitespace
'['        Punctuation
'r'        Name
'])]'      Punctuation
';'        Operator
''         Text.Whitespace
'^+`'      Name
';'        Operator
''         Text.Whitespace
'kb1'
      Name
';'        Operator
''         Text.Whitespace
'kb0'     Name
')'        Punctuation
\n      ' Text.Whitespace
'end'     Keyword
''         Text.Whitespace
'if'      Keyword
\n      ' Text.Whitespace
'end'     Keyword
''         Text.Whitespace
'if'      Keyword
';'        Punctuation
\n      ' Text.Whitespace
'if'      Keyword
''         Text.Whitespace
'w'       Name
''         Text.Whitespace
'::'      Operator
''         Text.Whitespace
'And'     Name
'('        Punctuation

```

'specfunc' Name
'(' Punctuation
'^if' Name
'(' Punctuation
'mode' Name
'' Text.Whitespace
'=' Operator
'' Text.Whitespace
'^*' Name
';' Operator
'' Text.Whitespace
'{' Punctuation
'product' Name
';' Operator
'' Text.Whitespace
'Product' Name
'}' Punctuation
';'
Operator
'' Text.Whitespace
'{' Punctuation
'sum' Name
';' Operator
'' Text.Whitespace
'Sum' Name
'}})' Punctuation
';' Operator
'\n ' Text.Whitespace
'anyfunc' Name
'(' Punctuation
'anything' Name
';' Operator
'' Text.Whitespace
'name' Name
'=' Operator
'range' Name
'(' Punctuation
'freeof' Name
'(' Punctuation
'var' Name
'))))' Punctuation
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'x' Name
';' Operator
'' Text.Whitespace
'kb' Name

```

''      Text.Whitespace
':='   Operator
''      Text.Whitespace
'genType' Name
'('    Punctuation
'op'   Name.Builtin
'(['   Punctuation
'2'    Literal.Number.Integer
';'    Operator
'1'    Literal.Number.Integer
']'
      Punctuation
';'    Operator
'w'    Name
')'    Punctuation
';'    Operator
''      Text.Whitespace
'HInt' Name
'('    Punctuation
'closed_bounds' Name
'('    Punctuation
'op'   Name.Builtin
'(['   Punctuation
'2'    Literal.Number.Integer
';'    Operator
'2'    Literal.Number.Integer
']'    Punctuation
';'    Operator
'w'    Name
')))' Punctuation
';'    Operator
''      Text.Whitespace
'kb1'  Name
';'    Operator
'\n    ' Text.Whitespace
'w'    Name
';'    Operator
''      Text.Whitespace
'var'  Name
';'    Operator
''      Text.Whitespace
'loop' Name
';'    Operator
''      Text.Whitespace
'heap' Name
');'   Punctuation
'\n    ' Text.Whitespace
'return' Keyword

```

```

''      Text.Whitespace
'unproduct' Name
'('     Punctuation
'eval'
      Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'w'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'['     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'1'     Literal.Number.Integer
']'     Punctuation
';'     Operator
'w'     Name
')'     Punctuation
'='     Operator
'x'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'var'   Name
';'     Operator
''      Text.Whitespace
'loop'  Name
';'     Operator
'\n     ' Text.Whitespace
 '['     Punctuation
'op'    Name.Builtin
'('     Punctuation
'heap'  Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'Binder' Name
'('     Punctuation
'op'
      Name.Builtin
'('     Punctuation
'0'     Literal.Number.Integer
';'     Operator

```

'w' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'mode' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '^*`' Name
 '' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 '::' Operator
 ''
 '' Text.Whitespace
 '''' Punctuation
 '{' Punctuation
 '^+`' Name
 ';' Operator
 '' Text.Whitespace
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ';' Operator
 '' Text.Whitespace
 'Sum' Name

```

'}}}' Punctuation
'''' Punctuation
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# Maybe this w is one of those big sums involving products that are\n' Comment.Single

' ' Text.Whitespace
'# always equal to 1, left behind by the density of Categorical\n' Comment.Single

' ' Text.Whitespace
'w1' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'graft' Name
'(' Punctuation
'split' Name
'(' Punctuation
'peel' Name
'(' Punctuation
'w' Name
')));' Punctuation
'\n ' Text.Whitespace
'w1' Name
'' Text.Whitespace
':='
Operator
'' Text.Whitespace
'combine' Name
'(' Punctuation
'rebase_upper' Name
'(' Punctuation
'w1' Name
')));' Punctuation
'\n ' Text.Whitespace
'w1' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'combine' Name
'(' Punctuation
'rebase_lower' Name
'(' Punctuation
'w1' Name
')));' Punctuation
'\n ' Text.Whitespace
'return' Keyword

```

```

''      Text.Whitespace
 '['    Punctuation
 'wrap' Name
 '('    Punctuation
 'heap' Name
 ';'    Operator
 ''     Text.Whitespace
 'w1'   Name
 ';'    Operator
 ''     Text.Whitespace
 'mode' Name
 ';'    Operator
 ''     Text.Whitespace
 'kb1'  Name
 ';'    Operator
 ''     Text.Whitespace
 'kb0'  Name
 ')'    Punctuation
 ';'    Operator
 ''     Text.Whitespace
 '1'
      Literal.Number.Integer
 ']'    Punctuation
 '\n '   Text.Whitespace
 'end'   Keyword
 ''     Text.Whitespace
 'if'    Keyword
 ';'    Punctuation
 '\n '   Text.Whitespace
 'return' Keyword
 ''     Text.Whitespace
 '['    Punctuation
 'wrap' Name
 '('    Punctuation
 'heap' Name
 ';'    Operator
 ''     Text.Whitespace
 'w'    Name
 ';'    Operator
 ''     Text.Whitespace
 'mode' Name
 ';'    Operator
 ''     Text.Whitespace
 'kb1'  Name
 ';'    Operator
 ''     Text.Whitespace
 'kb0'  Name
 ')'    Punctuation

```

```

';      Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
']'     Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
'\n\n ' Text.Whitespace
'enter_pieewise' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'ee'    Name
';'     Operator
''      Text.Whitespace
'kb0'   Name
'::'    Operator
't_kb'  Name
';'     Operator
''      Text.Whitespace
'mode'  Name
'::'    Operator
'identical' Name
'('     Punctuation
'^*^'   Name
';'     Operator
'^+^'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'e'     Name
';'     Operator
''      Text.Whitespace
'kb'    Name
';'     Operator
''      Text.Whitespace
'mo'    Name
';'     Punctuation

```

```

\n ' Text.Whitespace
'e' Name
' ' Text.Whitespace
':=' Operator
'' Text.Whitespace
'ee' Name
';'
Punctuation
\n ' Text.Whitespace
'kb' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'kb0' Name
';' Punctuation
\n ' Text.Whitespace
'mo' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'mode' Name
'():' Punctuation
\n ' Text.Whitespace
'while' Keyword
'' Text.Whitespace
'e' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'''' Punctuation
'specfunc' Name
'(' Punctuation
'piecewise' Name.Builtin
')' Punctuation
'''' Punctuation
'' Text.Whitespace
'and' Keyword
'' Text.Whitespace
'nops' Name.Builtin
'(' Punctuation
'e' Name
')' Punctuation
'' Text.Whitespace
'=' Operator
'' Text.Whitespace
'3' Literal.Number.Integer
'

```

' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'mo' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'kb' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'assert' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'e' Name
 '' Text.Whitespace
 ':=' Operator
 ''
 Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'e' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword

```

''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'e'     Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'mo'    Name
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'assert' Name
'('     Punctuation
'Not'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'e'     Name
'))'    Punctuation
';'     Operator
''      Text.Whitespace
'kb'
Name
');'    Punctuation
'\n    ' Text.Whitespace
'e'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'3'     Literal.Number.Integer
';'     Operator
'e'     Name
');'    Punctuation
'\n    ' Text.Whitespace
'else'  Keyword
'\n    ' Text.Whitespace
'break' Keyword

```

```

';'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'ASSERT' Name.Builtin
'('      Punctuation
'type'   Name.Builtin
'('      Punctuation
'kb'     Name
';'      Operator
't_kb'   Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'''enter_pieewise:
  KB of pieewise conditions is not valid, so the input pieewise must not be valid.''' Literal.String
)';'     Punctuation
'\n '    Text.Whitespace
'e'      Name
';'      Operator
''       Text.Whitespace
'kb'     Name
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Punctuation
'\n\n '  Text.Whitespace
'# heap is a list of t_binder and t_stmt\n' Comment.Single

' '      Text.Whitespace
'# one invariant to maintain:\n' Comment.Single

' '      Text.Whitespace
'# wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)\n' Comment.Single

'\n '    Text.Whitespace
'# Also, a t_binder is a Product/product/Sum/sum.\n' Comment.Single

' '      Text.Whitespace

```

And, a t_stmt is a 1-hole context of a (multiplicative) AST,\n' Comment.Single

' ' Text.Whitespace
used for [a ^ hole, hole ^ b, exp(hole), c * hole].\n' Comment.Single

\n
' Text.Whitespace
'wrap' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'heap' Name
'::' Operator
'list' Name
';' Operator
' ' Text.Whitespace
'e1' Name
';' Operator
' ' Text.Whitespace
'mode1' Name
'::' Operator
'identical' Name
'(' Punctuation
'*`' Name
';' Operator
'+' Name
')' Punctuation
';' Operator
\n ' Text.Whitespace
'kb1' Name
'::' Operator
't_kb' Name
';' Operator
' ' Text.Whitespace
'kb0' Name
'::' Operator
't_kb' Name
';' Operator
' ' Text.Whitespace
'\$' Operator
')' Punctuation
\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'e' Name
';' Operator

```

'
'      Text.Whitespace
'kb'   Name
';'    Operator
''     Text.Whitespace
'mode' Name
';'    Operator
''     Text.Whitespace
'i'    Name
';'    Operator
''     Text.Whitespace
'entry' Name
';'    Operator
''     Text.Whitespace
'rest'  Name
';'    Operator
''     Text.Whitespace
'var'   Name
';'    Operator
''     Text.Whitespace
'new_rng' Name
';'    Operator
''     Text.Whitespace
'make'  Name
';'    Operator
''     Text.Whitespace
'logmake' Name
';'    Operator
'\n    ' Text.Whitespace
'dom_spec' Name
';'    Operator
''     Text.Whitespace
'w'     Name
';'    Operator
''     Text.Whitespace
'wPow'  Name
';'    Operator
''     Text.Whitespace
'wExp'  Name
';'    Operator
''     Text.Whitespace
'arrrgs' Name
';'    Punctuation
'\n
'      Text.Whitespace
'e'    Name
' '    Text.Whitespace
':='   Operator

```

```

''      Text.Whitespace
'e1'   Name
';'    Punctuation
'\n '  Text.Whitespace
'kb'   Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'kb1'  Name
';'    Punctuation
'\n '  Text.Whitespace
'mode' Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'mode1' Name
';'    Punctuation
'\n '  Text.Whitespace
'for'  Keyword
''     Text.Whitespace
'i'    Name
''     Text.Whitespace
'from' Keyword
''     Text.Whitespace
'nops' Name.Builtin
'('    Punctuation
'heap' Name
')'    Punctuation
''     Text.Whitespace
'to'   Keyword
''     Text.Whitespace
'1'   Literal.Number.Integer
''     Text.Whitespace
'by'  Keyword
''
      Text.Whitespace
'-'   Operator
'1'   Literal.Number.Integer
''    Text.Whitespace
'do'  Keyword
'\n ' Text.Whitespace
'entry' Name
''    Text.Whitespace
':='  Operator
''    Text.Whitespace
'op'  Name.Builtin
'('   Punctuation
'i'   Name

```

```

';      Operator
'heap'  Name
');'    Punctuation
'\n    ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'entry' Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
't_binder' Name
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'entry' Name
')'     Punctuation
''      Text.Whitespace
'in'
      Keyword
''      Text.Whitespace
'^if'   Name
'('     Punctuation
'mode'  Name
'='     Operator
'^+'    Name
';'     Operator
''      Text.Whitespace
'{'     Punctuation
'sum'   Name
';'     Operator
'Sum'   Name
'}'     Punctuation
';'     Operator
'\n
      ' Text.Whitespace
'{'     Punctuation
'product' Name
';'     Operator
'Product' Name
'}})'   Punctuation

```

```

''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'print' Name.Builtin
'('     Punctuation
'''Warning: heap mode inconsistency''' Literal.String
';'     Operator
''      Text.Whitespace
'heap'  Name
';'     Operator
''      Text.Whitespace
'model' Name
')'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'e'     Name
';'     Operator
''      Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'enter_pieewise' Name
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
'kb'    Name
';'     Operator
''      Text.Whitespace
'mode'  Name
');'    Punctuation
'\n'    ' Text.Whitespace
'rest'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'kb_subtract' Name
'('     Punctuation
'kb'    Name
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin

```

```

 '('      Punctuation
 '2'      Literal.Number.Integer
 ';'      Operator
 'entry'  Name
 ');'     Punctuation
 '\n      ' Text.Whitespace
 'new_rng' Name
 ';'      Operator
 ''       Text.Whitespace
 'rest'   Name
 ''
 
     Text.Whitespace
 ':='     Operator
 ''       Text.Whitespace
 'selectremove' Name.Builtin
 '('      Punctuation
 'type'   Name.Builtin
 ';'      Operator
 ''       Text.Whitespace
 'rest'   Name
 ';'      Operator
 '\n      ' Text.Whitespace
 '{['     Punctuation
 'identical' Name
 '('      Punctuation
 'genType' Name
 ')'      Punctuation
 ';'      Operator
 ''       Text.Whitespace
 'name'   Name
 ';'      Operator
 ''       Text.Whitespace
 'specfunc' Name
 '('      Punctuation
 'HInt'   Name
 ')]'     Punctuation
 ';'      Operator
 '\n      ' Text.Whitespace
 '['      Punctuation
 'identical' Name
 '('      Punctuation
 'genLet' Name
 ')'      Punctuation
 ';'      Operator
 ''       Text.Whitespace
 'name'   Name
 ';'      Operator
 ''       Text.Whitespace

```

```

'anything' Name
'}});' Punctuation
'\n ' Text.Whitespace
'if'
  Keyword
  ' ' Text.Whitespace
'not' Keyword
  ' ' Text.Whitespace
'(' Punctuation
'new_rng' Name
  ' ' Text.Whitespace
'::' Operator
  ' ' Text.Whitespace
'[' Punctuation
'list' Name
  ']' Punctuation
  ' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'error' Keyword
  ' ' Text.Whitespace
"kb_subtract should return exactly one gen*" Literal.String
'\n ' Text.Whitespace
'end' Keyword
  ' ' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'new_rng' Name
  ' ' Text.Whitespace
':=' Operator
  ' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'new_rng' Name
');' Punctuation
'\n ' Text.Whitespace
'var' Name
  ' ' Text.Whitespace
':=' Operator
  ' ' Text.Whitespace
'op' Name.Builtin
'('
  Punctuation
'2' Literal.Number.Integer
';' Operator
'new_rng' Name
');' Punctuation

```

```

\n      ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'new_rng' Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'genType' Name
''      Text.Whitespace
'then'  Keyword
\n      ' Text.Whitespace
'make'  Name
' '     Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'entry' Name
');'    Punctuation
\n      ' Text.Whitespace
'new_rng' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'range_of_HInt' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'3'     Literal.Number.Integer
';'     Operator
'new_rng' Name
'));'   Punctuation
\n      ' Text.Whitespace
'else'  Keyword
''      Text.Whitespace
'# op(1,new_rng) = genLet\n' Comment.Single

'      ' Text.Whitespace
'make'  Name
' '     Text.Whitespace

```

```

':='      Operator
''        Text.Whitespace
'eval'    Name.Builtin
';'       Punctuation
'\n'      ' Text.Whitespace
'new_rng' Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'op'      Name.Builtin
'('       Punctuation
'3'       Literal.Number.Integer
';'       Operator
'new_rng' Name
');'      Punctuation
'\n'      ' Text.Whitespace
'end'     Keyword
''        Text.Whitespace
'if'      Keyword
';'       Punctuation
'\n'      ' Text.Whitespace
'dom_spec' Name
';'       Operator
''        Text.Whitespace
'rest'
    Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'selectremove' Name.Builtin
'('       Punctuation
'depends' Name
';'       Operator
'\n'      ' Text.Whitespace
'map'     Name.Builtin
'('       Punctuation
'proc'    Keyword
'('       Punctuation
'a'       Name
'::'      Operator
'['       Punctuation
'identical' Name
'('       Punctuation
'assert'  Name
')'       Punctuation
';'       Operator
'anything' Name
']'       Punctuation

```

```

';      Operator
'$'     Operator
')'     Punctuation
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'a'     Name
')'     Punctuation
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Operator
''      Text.Whitespace
'rest'  Name
')'
    Punctuation
';'     Operator
'\n'    ' Text.Whitespace
'var'   Name
');'    Punctuation
'\n\n'  ' Text.Whitespace
# Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);\n' Comment.Single

'      ' Text.Whitespace
# but try to simplify by pushing the make and the piecewise into e\n' Comment.Single

'      ' Text.Whitespace
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
'w'     Name
')'     Punctuation
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'depends' Name
';'     Operator
''      Text.Whitespace
'convert' Name.Builtin
'('     Punctuation
'e'     Name
';'     Operator

```

```

''      Text.Whitespace
''''    Punctuation
'list'  Name
''''    Punctuation
';'     Operator
''      Text.Whitespace
'^*`'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'var'   Name
');'    Punctuation
'\n'    ' Text.Whitespace
'w'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'^*`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'w'     Name
')):'   Punctuation
'\n'    ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'mode'  Name
''      Text.Whitespace
'≡'     Operator
''      Text.Whitespace
'^*`'   Name
''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'('     Punctuation
'wPow'  Name
';'     Operator
''      Text.Whitespace
'e'     Name
')'     Punctuation
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
';'

```

```

Operator
''      Text.Whitespace
'e'     Name
','     Operator
''      Text.Whitespace
''''    Punctuation
'^^'   Name
''''    Punctuation
'('     Punctuation
''''    Punctuation
'freeof' Name
''''    Punctuation
'('     Punctuation
'var'   Name
')'     Punctuation
','     Operator
''      Text.Whitespace
''''    Punctuation
'anything' Name
''''    Punctuation
');'    Punctuation
'\n'    ' Text.Whitespace
'('     Punctuation
'wExp'  Name
','     Operator
''      Text.Whitespace
'e'     Name
')'     Punctuation
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
','     Operator
''      Text.Whitespace
'e'     Name
','     Operator
''      Text.Whitespace
''''    Punctuation
'exp'
Name
'('     Punctuation
'anything' Name
')'     Punctuation
''''    Punctuation
');'    Punctuation
'\n'    ' Text.Whitespace

```

```

'wExp'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'^+'     Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'map2'   Name
'('      Punctuation
'op'     Name.Builtin
';'      Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'wExp'   Name
')));'   Punctuation
'\n'     ' Text.Whitespace
'wExp'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'expand' Name.Builtin
'('      Punctuation
'wExp'   Name
';'      Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'indets' Name.Builtin
'('      Punctuation
'wExp'
    Name
';'      Operator
''       Text.Whitespace
'function' Name
')));'   Punctuation
'\n'     ' Text.Whitespace
'logmake' Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
't'      Name
')'      Punctuation
'\n'     ' Text.Whitespace

```

```

'local'    Keyword
''        Text.Whitespace
's'       Name
','       Operator
''        Text.Whitespace
'r'       Name
';'       Punctuation
'\n      ' Text.Whitespace
's'       Name
','       Operator
''        Text.Whitespace
'r'       Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'selectremove' Name.Builtin
'('       Punctuation
'depends' Name
','       Operator
''        Text.Whitespace
'convert' Name.Builtin
'('       Punctuation
't'       Name
','       Operator
''        Text.Whitespace
''''
Punctuation
'list'    Name
''''      Punctuation
','       Operator
''        Text.Whitespace
'^*^'     Name
')'       Punctuation
','       Operator
''        Text.Whitespace
'var'     Name
');'      Punctuation
'\n      ' Text.Whitespace
'^*^'     Name
'('       Punctuation
'op'      Name.Builtin
'('       Punctuation
'r'       Name
')'       Punctuation
','       Operator
'\n      ' Text.Whitespace
'^if'     Name
'('       Punctuation

```

'make' Name
 '=' Operator
 'eval' Name.Builtin
 ';' Operator
 'eval' Name.Builtin
 ';' Operator
 'Sum' Name
 ')' Punctuation
 '\n' Text.Whitespace
 '(' Punctuation
 'piecewise_And' Name
 '(' Punctuation
 'dom_spec' Name
 ':' Operator
 '' Text.Whitespace
 '^*^' Name
 '(' Punctuation
 'op' Name.Builtin
 '('
 Punctuation
 's' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 '0' Literal.Number.Integer
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'var' Name
 '=' Operator
 'new_rng' Name
 ');' Punctuation
 '\n' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^*^' Name
 '(' Punctuation
 '' Text.Whitespace
 '^if' Name
 '(' Punctuation
 'w' Name

```

''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'w'     Name
'
'
'      Text.Whitespace
'^'     Operator
''      Text.Whitespace
'logmake' Name
'('     Punctuation
'1'     Literal.Number.Integer
'))'    Punctuation
'\n'    ' Text.Whitespace
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'map'   Name.Builtin
'(('    Punctuation
'f'     Name
''      Text.Whitespace
'-'>'   Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'f'     Name
')'     Punctuation
''      Text.Whitespace
'^'     Operator
''      Text.Whitespace
'logmake' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'f'     Name
')))'   Punctuation
';'     Operator
''      Text.Whitespace

```

```

'wPow'
  Name
'))'    Punctuation
'\n     ' Text.Whitespace
';'     Operator
''      Text.Whitespace
'^if'   Name
'('     Punctuation
'wExp'  Name
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'0'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'exp'   Name
'('     Punctuation
'matype' Name
'('     Punctuation
'^+'    Name
';'     Operator
'logmake' Name
';'     Operator
'wExp'  Name
')))'   Punctuation
''      Text.Whitespace
');'    Punctuation
'\n     ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n     ' Text.Whitespace
'e'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'w'
  Name
''      Text.Whitespace
'*'     Operator
''      Text.Whitespace
'make'  Name
'('     Punctuation
'piecewise_And' Name

```

```

 '('      Punctuation
 'dom_spec' Name
 ';'     Operator
 ''      Text.Whitespace
 '^*`'   Name
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 'e'     Name
 '))'    Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'mode'  Name
 '()'    Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'var'   Name
 '='     Operator
 'new_rng' Name
 ');'    Punctuation
 '\n\n'  Text.Whitespace
 '# `rest' originally comes from `entry', and this reinserts it after some\n" Comment.Single

 '      ' Text.Whitespace
 '# processing. The original KB was valid, so this one should also be valid.\n' Comment.Single

 '      ' Text.Whitespace
 'kb'   Name
 ''     Text.Whitespace
 ':='   Operator
 ''

     Text.Whitespace
 'foldr' Name
 '('     Punctuation
 'assert' Name
 ';'     Operator
 ''      Text.Whitespace
 'op'    Name.Builtin
 '('     Punctuation
 '2'     Literal.Number.Integer
 ';'     Operator
 'entry' Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'op'    Name.Builtin
 '('     Punctuation
 'rest'  Name

```

```

));' Punctuation
'\n ' Text.Whitespace
'ASSERT' Name.Builtin
 '(' Punctuation
'type' Name.Builtin
 '(' Punctuation
'kb' Name
',' Operator
't_kb' Name
')' Punctuation
',' Operator
'' Text.Whitespace
'''Loop/wrap{t_binder}: rebuilding kb produced contradiction''' Literal.String
));' Punctuation
'\n\n ' Text.Whitespace
'elif' Keyword
'' Text.Whitespace
'entry' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
't_stmt'
  Name
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# We evaluate arrrgs first, in case op(1,stmt) is an operation (such as\n' Comment.Single

' ' Text.Whitespace
'# piecewise) that looks ahead at how many arguments it is passed before\n' Comment.Single

' ' Text.Whitespace
'# they are evaluated.\n' Comment.Single

' ' Text.Whitespace
'arrrgs' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
 '(' Punctuation
'op' Name.Builtin
 '(' Punctuation
'2' Literal.Number.Integer
',' Operator
'entry' Name
'))' Punctuation
',' Operator

```

```

''      Text.Whitespace
'e'     Name
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'3'     Literal.Number.Integer
';'
      Operator
'entry' Name
'))';   Punctuation
'\n'   ' Text.Whitespace
'e'     Name
' '     Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'entry' Name
')('    Punctuation
'arrgs' Name
');'    Punctuation
'\n'   ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'entry' Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
't_exp' Name
''      Text.Whitespace
'then'  Keyword
'\n'   ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'mode'  Name
''      Text.Whitespace
'<>'   Operator
''      Text.Whitespace
'^+'    Name
''      Text.Whitespace
'then'  Keyword
'\n'   ' Text.Whitespace
'print' Name.Builtin

```

```

 '('      Punctuation
 ""Warning:
 heap mode inconsistency?" Literal.String
 ','      Operator
 ''      Text.Whitespace
 'heap'   Name
 ','      Operator
 ''      Text.Whitespace
 'mode1'  Name
 ')'      Punctuation
 '\n     ' Text.Whitespace
 'end'    Keyword
 ''      Text.Whitespace
 'if'     Keyword
 ';'      Punctuation
 '\n     ' Text.Whitespace
 'mode'   Name
 ''      Text.Whitespace
 ':= '    Operator
 ''      Text.Whitespace
 '^*`'    Name
 ';'      Punctuation
 '\n     ' Text.Whitespace
 'end'    Keyword
 ''      Text.Whitespace
 'if'     Keyword
 '\n     ' Text.Whitespace
 'else'   Keyword
 ''      Text.Whitespace
 'error'  Keyword
 ''      Text.Whitespace
 ""Malformed heap entry %1"" Literal.String
 ','      Operator
 ''      Text.Whitespace
 'entry'  Name
 ''      Text.Whitespace
 'end'    Keyword
 ''      Text.Whitespace
 'if'     Keyword
 '\n
     ' Text.Whitespace
 'end'    Keyword
 ''      Text.Whitespace
 'do'     Keyword
 ';'      Punctuation
 '\n     ' Text.Whitespace
 'if'     Keyword
 ''      Text.Whitespace

```

```

'mode'    Name
''       Text.Whitespace
'<>'     Operator
''       Text.Whitespace
'^*~'    Name
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'print'  Name.Builtin
'('      Punctuation
'''Warning: heap mode inconsistency??''' Literal.String
';'      Operator
''       Text.Whitespace
'heap'   Name
';'      Operator
''       Text.Whitespace
'mode1'  Name
')'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'e'      Name
';'      Operator
''       Text.Whitespace
'kb'     Name
''       Text.Whitespace
':='     Operator
''
    Text.Whitespace
'enter_piecewise' Name
'('      Punctuation
'e'      Name
';'      Operator
''       Text.Whitespace
'kb'     Name
';'      Operator
''       Text.Whitespace
'mode'   Name
');'     Punctuation
'\n '    Text.Whitespace
'rest'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'kb_subtract' Name

```

'(' Punctuation
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'rest' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'map' Name.Builtin
 '(' Punctuation
 'proc' Keyword
 '(' Punctuation
 'a' Name
 '::' Operator
 '[' Punctuation
 'identical' Name
 '(' Punctuation
 'assert' Name
 ')' Punctuation
 ';' Operator
 'anything' Name
 ']' Punctuation
 ';' Operator
 '\$' Operator
 ')' Punctuation
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'a' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Operator
 '' Text.Whitespace
 'rest' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 '(' Punctuation
 'wExp' Name
 ';' Operator

```

''      Text.Whitespace
'e'     Name
')'     Punctuation
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
';'     Operator
''      Text.Whitespace
'convert' Name.Builtin
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
''''
    Punctuation
'list'  Name
''''    Punctuation
';'     Operator
''      Text.Whitespace
'^*`'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
''''    Punctuation
'exp'   Name
'('     Punctuation
'anything' Name
')'     Punctuation
''''    Punctuation
');'    Punctuation
'\n '   Text.Whitespace
'wExp'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'^+`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'map2'  Name
'('     Punctuation
'op'    Name.Builtin
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer

```

```

';      Operator
''      Text.Whitespace
'wExp'  Name
')));'  Punctuation
'\n '   Text.Whitespace
'wExp'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'expand'
      Name.Builtin
'('     Punctuation
'wExp'  Name
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'indets' Name.Builtin
'('     Punctuation
'wExp'  Name
';'     Operator
''      Text.Whitespace
'function' Name
')));'  Punctuation
'\n '   Text.Whitespace
'logmake' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'('     Punctuation
't'     Name
''      Text.Whitespace
'-'>'   Operator
''      Text.Whitespace
't'     Name
''      Text.Whitespace
'*'     Operator
''      Text.Whitespace
'piecewise_And' Name
'('     Punctuation
'rest'  Name
';'     Operator
'1'     Literal.Number.Integer
';'     Operator
'0'     Literal.Number.Integer
')));'  Punctuation
'\n '   Text.Whitespace
'^if'   Name

```

```

'('      Punctuation
'wExp'   Name
      ' '      Text.Whitespace
      '='     Operator
      ' '      Text.Whitespace
      '0'     Literal.Number.Integer
      ';'     Operator
      ' '      Text.Whitespace
      '1'     Literal.Number.Integer
      ';'     Operator
      ' '      Text.Whitespace
'exp'    Name
'('      Punctuation
'maptype' Name
'('      Punctuation
'^+'    Name
      ';'     Operator
'logmake' Name
      ';'     Operator
'wExp'   Name
')))'   Punctuation
'\n '   Text.Whitespace
'*'     Operator
      ' '      Text.Whitespace
'piecewise_And' Name
'('      Punctuation
'rest'   Name
      ';'     Operator
'^*'    Name
'('      Punctuation
'op'    Name.Builtin
'('      Punctuation
'e'     Name
')))'   Punctuation
      ';'     Operator
      '1'     Literal.Number.Integer
      ');'    Punctuation
'\n '   Text.Whitespace
'end'   Keyword
      ' '      Text.Whitespace
'proc'  Keyword
      ';'
      Punctuation
'\n\n ' Text.Whitespace
'# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)\n' Comment.Single
      ' '      Text.Whitespace

```

to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)\n' Comment.Single

' ' Text.Whitespace
't_peel' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'''' Punctuation
'And' Name
'(' Punctuation
'specfunc' Name
'({' Punctuation
'sum' Name
'; ' Operator
'Sum' Name
'; ' Operator
'product' Name
'; ' Operator
'Product' Name
'})' Punctuation
'; ' Operator
'\n ' Text.Whitespace
'anyfunc' Name
'(' Punctuation
'anything' Name
'; ' Operator
' ' Text.Whitespace
'name' Name
'=' Operator
'range' Name
')' Punctuation
'''' Punctuation
'; ' Punctuation
'\n ' Text.Whitespace
'peel'
Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
'; ' Operator
' ' Text.Whitespace
'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'subsindets' Name.Builtin

'(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 't_peel' Name
 ';' Operator
 '' Text.Whitespace
 'do_peel' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_peel' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n '
 Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'make' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'cond' Name
 ';' Operator
 '' Text.Whitespace
 'line' Name
 ';' Operator
 '' Text.Whitespace

```

'test'    Name
','      Operator
''       Text.Whitespace
'x0'     Name
','      Operator
''       Text.Whitespace
'r0'     Name
','      Operator
''       Text.Whitespace
'cond0'  Name
','      Operator
''       Text.Whitespace
'here'   Name
','      Operator
''       Text.Whitespace
'rest'   Name
';'      Punctuation
'\n '    Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'not'
  Keyword
''       Text.Whitespace
'('      Punctuation
'e'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
't_peel' Name
')'      Punctuation
''       Text.Whitespace
'then'   Keyword
''       Text.Whitespace
'return' Keyword
''       Text.Whitespace
'e'      Name
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'if'     Keyword
' '      Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'0'      Literal.Number.Integer
','      Operator

```

'e' Name
 ')' Punctuation
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 "" Punctuation
 '{' Punctuation
 'sum' Name
 ' ' Text.Whitespace
 ';' Operator
 'Sum' Name
 ' ' Text.Whitespace
 '}'
 Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'make' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '~+' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 "" Punctuation
 '{' Punctuation
 'product' Name
 ';' Operator
 'Product' Name
 '}' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'make' Name
 '' Text.Whitespace

```

':='      Operator
''        Text.Whitespace
'^*\'     Name
';        Punctuation
''
    Text.Whitespace
'end'     Keyword
''        Text.Whitespace
'if'      Keyword
';        Punctuation
'\n '     Text.Whitespace
'body'    Name
';        Operator
''        Text.Whitespace
'r'       Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'op'      Name.Builtin
'('       Punctuation
'e'       Name
');'      Punctuation
'\n '     Text.Whitespace
'x'       Name
';        Operator
''        Text.Whitespace
'r'       Name
' '       Text.Whitespace
':='      Operator
''        Text.Whitespace
'op'      Name.Builtin
'('       Punctuation
'r'       Name
');'      Punctuation
'\n '     Text.Whitespace
'for'     Keyword
''        Text.Whitespace
'cond'    Name
''        Text.Whitespace
'in'      Keyword
''        Text.Whitespace
'indets'  Name.Builtin
'('       Punctuation
'body'    Name
';        Operator
'
'         Text.Whitespace
''''      Punctuation

```

'{' Punctuation
 '^=' Name
 '(' Punctuation
 'algebraic' Name
 ')' Punctuation
 ';' Operator
 '^<' Name
 ';' Operator
 '^<=' Name
 '}' Punctuation
 '""' Punctuation
 ')' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'line' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^-' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'cond' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 '<>' Operator
 '' Text.Whitespace
 'degree' Name.Builtin
 '(' Punctuation
 'line' Name
 ';' Operator
 '' Text.Whitespace
 'x'
 Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'next' Keyword
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword

```

';'      Punctuation
'\n    ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'cond'   Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
'^='     Name
''       Text.Whitespace
'then'   Keyword
'\n    ' Text.Whitespace
'cond0'  Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'true'   Name
';'      Punctuation
'\n    ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'Testzero' Name
'('      Punctuation
'eval'   Name.Builtin
'('      Punctuation
'line'   Name
';'      Operator
''       Text.Whitespace
'x'      Name
'='      Operator
'lhs'
    Name.Builtin
'('      Punctuation
'r'      Name
')))'    Punctuation
''       Text.Whitespace
'then'   Keyword
'\n    ' Text.Whitespace
'x0'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'lhs'    Name.Builtin
'('      Punctuation
'r'      Name
');'     Punctuation
''       Text.Whitespace
'r0'     Name

```

```

''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'applyop' Name
'('     Punctuation
'^+'    Name
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'r'     Name
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
');'    Punctuation
'\n'    ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'Testzero' Name
'('     Punctuation
'eval'  Name.Builtin
'('     Punctuation
      Punctuation
'line'  Name
';'     Operator
''      Text.Whitespace
'x'     Name
'='     Operator
'rhs'   Name.Builtin
'('     Punctuation
'r'     Name
')))'   Punctuation
''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'x0'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'rhs'   Name.Builtin
'('     Punctuation
'r'     Name
');'    Punctuation
''      Text.Whitespace
'r0'    Name
''      Text.Whitespace
':='    Operator

```

```

''      Text.Whitespace
'applyop' Name
'('     Punctuation
'^_`'   Name
';'     Operator
''      Text.Whitespace
'2'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'r'     Name
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
');'    Punctuation
'\n
      ' Text.Whitespace
'else'  Keyword
''      Text.Whitespace
'next'  Keyword
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n    ' Text.Whitespace
'else'  Keyword
'\n    ' Text.Whitespace
'test'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'x0'    Name
';'     Operator
''      Text.Whitespace
'x1'    Name
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n    ' Text.Whitespace
'local' Keyword
''      Text.Whitespace
'res'   Name
';'     Punctuation
'\n    ' Text.Whitespace
'res'   Name

```

```

''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'evalb' Name.Builtin
'('     Punctuation
'not'   Keyword
''
      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'0'     Literal.Number.Integer
';'     Operator
'cond'  Name
')('    Punctuation
'eval'  Name.Builtin
'('     Punctuation
'line'  Name
';'     Operator
''      Text.Whitespace
'x'     Name
':='    Operator
'x1'    Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'0'     Literal.Number.Integer
'))';'  Punctuation
'\n'    ' Text.Whitespace
`if'    Name
'('     Punctuation
'res'   Name
''      Text.Whitespace
'in'    Keyword
''      Text.Whitespace
''''    Punctuation
'{'     Punctuation
'true'  Name
';'     Operator
'false' Name
'}'     Punctuation
''''    Punctuation
'\n'    ' Text.Whitespace
'and'   Keyword
''      Text.Whitespace
'evalb' Name.Builtin
'('     Punctuation
'op'

```

Name.Builtin

'(' Punctuation

'0' Literal.Number.Integer

',' Operator

'cond' Name

')(Punctuation

'eval' Name.Builtin

'(' Punctuation

'line' Name

',' Operator

'' Text.Whitespace

'x' Name

'=' Operator

'x0' Name

'),' Punctuation

',' Operator

'' Text.Whitespace

'0' Literal.Number.Integer

'))' Punctuation

'' Text.Whitespace

'=' Operator

'' Text.Whitespace

'res' Name

',' Operator

'\n ' Text.Whitespace

'res' Name

',' Operator

'\n ' Text.Whitespace

'FAIL' Name

'),' Punctuation

'\n ' Text.Whitespace

'end' Keyword

'' Text.Whitespace

'proc' Keyword

',' Punctuation

'\n ' Text.Whitespace

'cond0' Name

'' Text.Whitespace

':=' Operator

''

Text.Whitespace

'test' Name

'(' Punctuation

'lhs' Name.Builtin

'(' Punctuation

'r' Name

'),' Punctuation

',' Operator

```

''      Text.Whitespace
'lhs'   Name.Builtin
'('     Punctuation
'r'     Name
')'     Punctuation
'+'     Operator
'1'     Literal.Number.Integer
');'    Punctuation
'\n'    ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'cond0' Name
''      Text.Whitespace
'<>'   Operator
''      Text.Whitespace
'FAIL'  Name
''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'x0'   Name
''      Text.Whitespace
':='   Operator
''      Text.Whitespace
'lhs'  Name.Builtin
'('    Punctuation
'r'    Name
');'   Punctuation
''     Text.Whitespace
'r0'   Name
''     Text.Whitespace
':='   Operator
''
      Text.Whitespace
'applyop' Name
'('     Punctuation
'^+'   Name
';'    Operator
''     Text.Whitespace
'1'    Literal.Number.Integer
';'    Operator
''     Text.Whitespace
'r'    Name
';'    Operator
''     Text.Whitespace
'1'    Literal.Number.Integer
');'   Punctuation
'\n'   ' Text.Whitespace
'else' Keyword

```

```

\n      ' Text.Whitespace
'cond0'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'test'   Name
'('     Punctuation
'rhs'   Name.Builtin
'('     Punctuation
'r'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'rhs'   Name.Builtin
'('     Punctuation
'r'     Name
')'     Punctuation
'-'     Operator
'1'     Literal.Number.Integer
');'    Punctuation
\n      ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'cond0'
  Name
''      Text.Whitespace
'<>'   Operator
''      Text.Whitespace
'FAIL'  Name
''      Text.Whitespace
'then'  Keyword
\n      ' Text.Whitespace
'x0'   Name
''     Text.Whitespace
':='  Operator
''     Text.Whitespace
'rhs' Name.Builtin
'('   Punctuation
'r'   Name
');'  Punctuation
''    Text.Whitespace
'r0'  Name
''    Text.Whitespace
':='  Operator
''    Text.Whitespace
'applyop' Name
'('   Punctuation
'^-^' Name

```

```

';'      Operator
''       Text.Whitespace
'2'     Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'r'     Name
';'      Operator
''       Text.Whitespace
'1'     Literal.Number.Integer
');'    Punctuation
'\n'    ' Text.Whitespace
'else'  Keyword
''       Text.Whitespace
'next'  Keyword
''
Text.Whitespace
'end'   Keyword
''       Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''       Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''       Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'here'  Name
''       Text.Whitespace
':='    Operator
''       Text.Whitespace
'subs'  Name.Builtin
'('     Punctuation
'cond'  Name
''       Text.Whitespace
'='     Operator
'       ' Text.Whitespace
'cond0' Name
''       Text.Whitespace
';'     Operator
''       Text.Whitespace
'body'  Name
');'    Punctuation
'\n'    ' Text.Whitespace

```

```

'rest'   Name
''       Text.Whitespace
':='    Operator
''       Text.Whitespace
'subs'   Name.Builtin
'('      Punctuation
'cond'
    Name
''       Text.Whitespace
'≡'     Operator
''       Text.Whitespace
'evalb'  Name.Builtin
'('      Punctuation
'not'    Keyword
''       Text.Whitespace
'cond0'  Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'body'   Name
');'     Punctuation
'\n'     Text.Whitespace
'return' Keyword
''       Text.Whitespace
'make'   Name
'('      Punctuation
'eval'   Name.Builtin
'('      Punctuation
'here'   Name
';'      Operator
''       Text.Whitespace
'x'      Name
'≡'     Operator
'x0'     Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'do_peel' Name
'('      Punctuation
'eval'   Name.Builtin
'('      Punctuation
'subsop' Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
'≡'     Operator
'rest'   Name
';'      Operator
'

```

' Text.Whitespace
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 '[' Punctuation
 '=' Operator
 'r0' Name
 ';' Operator
 '' Text.Whitespace
 'e' Name
 '))));' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'e' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 '# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)\n' Comment.Single

' ' Text.Whitespace
 'split' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e'
 Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'subsindets' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator

```

''      Text.Whitespace
''''    Punctuation
'And'   Name
'('     Punctuation
'specfunc' Name
'({'    Punctuation
'sum'   Name
';'     Operator
'Sum'   Name
'})'    Punctuation
';'     Operator
'\n     ' Text.Whitespace
'anyfunc' Name
'('     Punctuation
'And'   Name
'('     Punctuation
'^*`'   Name
';'     Operator
'Not'   Name
'('     Punctuation
'^*`'   Name
'('     Punctuation
'Not'   Name
'('     Punctuation
'^+`'   Name
'))))' Punctuation
';'     Operator
'name'  Name
'='     Operator
'anything' Name
'))'   Punctuation
''''   Punctuation
';'    Operator
'\n    ' Text.Whitespace
'do_split' Name
');'   Punctuation
'\n '  Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'proc' Keyword
';'    Punctuation
'\n '  Text.Whitespace
'do_split' Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'proc' Keyword

```

'(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'terms' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'terms' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'expand' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1'
 Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'indets' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'function' Name
 ')))' Punctuation
 ';' Operator
 '\n ' Text.Whitespace

| | |
|---------|------------------------|
| """ | Punctuation |
| 'list' | Name |
| """ | Punctuation |
| ',' | Operator |
| '' | Text.Whitespace |
| ^+`' | Name |
|);' | Punctuation |
| \n ' | Text.Whitespace |
| 'x' | Name |
| '' | Text.Whitespace |
| ':=' | Operator |
| '' | Text.Whitespace |
| 'op' | Name.Builtin |
| '([' | Punctuation |
| '2' | Literal.Number.Integer |
| ',' | Operator |
| '1' | Literal.Number.Integer |
| ']' | Punctuation |
| ',' | Operator |
| 'e' | Name |
|);' | Punctuation |
| \n ' | Text.Whitespace |
| ^+`' | Name |
| (' | Punctuation |
| 'op' | Name.Builtin |
| (' | Punctuation |
| 'map' | Name.Builtin |
| (' | Punctuation |
| 'proc' | Keyword |
| (' | Punctuation |
| 'term' | Name |
| ',' | Operator |
| '' | Text.Whitespace |
| '\$' | Operator |
|)' | Punctuation |
| \n ' | Text.Whitespace |
| 'local' | Keyword |
| '' | Text.Whitespace |
| 's' | Name |
| ',' | Operator |
| '' | Text.Whitespace |
| 'r' | Name |
| ',' | Punctuation |
| \n ' | Text.Whitespace |
| 's' | Name |
| ',' | Operator |
| '' | Text.Whitespace |

```

'r'      Name
''       Text.Whitespace
':='    Operator
''       Text.Whitespace
'selectremove' Name.Builtin
'('      Punctuation
'depends' Name
';'      Operator
''
Text.Whitespace
'convert' Name.Builtin
'('      Punctuation
'term'   Name
';'      Operator
''       Text.Whitespace
''''     Punctuation
'list'   Name
''''     Punctuation
';'      Operator
''       Text.Whitespace
'^*`'    Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'x'      Name
');'     Punctuation
'\n'    ' Text.Whitespace
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'subop'  Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
'='      Operator
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
's'      Name
'))'     Punctuation
';'      Operator
'e'      Name
'))'     Punctuation

```

```

\n ' Text.Whitespace
'end'
  Keyword
'' Text.Whitespace
'proc' Keyword
';' Operator
'' Text.Whitespace
'terms' Name
'))' Punctuation
\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
\n\n ' Text.Whitespace
# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)\n' Comment.Single

' ' Text.Whitespace
'graft' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
\n ' Text.Whitespace
'subsindets' Name.Builtin
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'''' Punctuation
'Or' Name
'(' Punctuation
'And' Name
'(' Punctuation
'^*\' Name
';'
  Operator
'Not' Name
'(' Punctuation
'^*\' Name
'(' Punctuation
'Not' Name

```

'(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'product' Name
 ';' Operator
 'Product' Name
 '})')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'And' Name
 '(' Punctuation
 '^+' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 '^+' Name
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ' ' Text.Whitespace
 ';' Operator
 'Sum' Name
 ' ' Text.Whitespace
 '})')' Punctuation
 '""' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'do_graft' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 ' ' Text.Whitespace
 'proc'
 Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_graft' Name
 ' ' Text.Whitespace
 ':=' Operator
 ' ' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 ' ' Text.Whitespace

'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'produce' Name
';' Operator
'' Text.Whitespace
'factors' Name
';' Operator
'' Text.Whitespace
'i' Name
';' Operator
'' Text.Whitespace
'j' Name
';' Punctuation
'\n ' Text.Whitespace
'produce' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'^if' Name
'(' Punctuation
'e' Name
'::' Operator
'^*^' Name
';' Operator
'' Text.Whitespace
'''' Punctuation
'{' Punctuation
'''' Punctuation
'product' Name
';' Operator
'Product' Name
'}' Punctuation
'''' Punctuation
';' Operator
'\n ' Text.Whitespace
'''' Punctuation
'{' Punctuation
'sum' Name
' ' Text.Whitespace
';' Operator
'Sum' Name
' ' Text.Whitespace
'}' Punctuation
'''' Punctuation
');' Punctuation

\n ' Text.Whitespace
 'factors' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'sort' Name.Builtin
 '(' Punctuation
 'convert' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 "" Punctuation
 'list' Name
 "" Punctuation
 ')' Punctuation
 ';' Operator
 \n ' Text.Whitespace
 'key' Name
 '' Text.Whitespace
 '≡' Operator
 '' Text.Whitespace
 '('
 Punctuation
 'factor' Name
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 '-' Operator
 'numboccur' Name.Builtin
 '(' Punctuation
 'factor' Name
 ';' Operator
 'produce' Name
 '));' Punctuation
 \n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'factors' Name
 ')' Punctuation
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace

'2' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'j' Name
 ''
 Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 'i' Name
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'j' Name
 ';' Operator
 'factors' Name
 ')' Punctuation
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 'And' Name
 '''' Punctuation
 '(' Punctuation
 '''' Punctuation
 'specfunc' Name

```

"""      Punctuation
'('      Punctuation
'produce'  Name
')'      Punctuation
';'
      Operator
\n      ' Text.Whitespace
"""      Punctuation
'anyfunc' Name
'('      Punctuation
'anything' Name
';'      Operator
'name'   Name
'='      Operator
'range'  Name
')'      Punctuation
"""      Punctuation
')'      Punctuation
''       Text.Whitespace
'then'   Keyword
\n      ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'Testzero' Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'i'      Name
';'      Operator
'factors' Name
')'      Punctuation
''       Text.Whitespace
'-'      Operator
''       Text.Whitespace
'eval'   Name.Builtin
'('      Punctuation
'op'     Name.Builtin
'(['    Punctuation
'j'      Name
';'      Operator
'1'      Literal.Number.Integer
']'      Punctuation
';'      Operator
'factors' Name
')'
      Punctuation
';'      Operator
\n      ' Text.Whitespace

```

'op' Name.Builtin
 '(' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '=' Operator
 'op' Name.Builtin
 '(' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' Text.Whitespace
 'factors' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subsop'
 Name.Builtin
 '(' Punctuation
 'i' Name
 '=' Operator
 'NULL' Name
 ';' Operator
 'applyop' Name
 '(' Punctuation
 '^~' Name
 ';' Operator
 '[' Punctuation
 'j' Name

```

';      Operator
'2'     Literal.Number.Integer
';      Operator
'2'     Literal.Number.Integer
';      Operator
'1'     Literal.Number.Integer
']'     Punctuation
';      Operator
'factors' Name
';      Operator
'1'     Literal.Number.Integer
'))';   Punctuation
'\n     ' Text.Whitespace
'break' Keyword
'\n     ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'Testzero' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'i'     Name
';      Operator
'factors' Name
')'     Punctuation
''      Text.Whitespace
'-'     Operator
''      Text.Whitespace
'eval'
      Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'(['    Punctuation
'j'     Name
';      Operator
'1'     Literal.Number.Integer
']'     Punctuation
';      Operator
'factors' Name
')'     Punctuation
';      Operator
'\n     ' Text.Whitespace
'op'    Name.Builtin
'(['    Punctuation
'j'     Name
';      Operator
'2'     Literal.Number.Integer
';      Operator

```

'1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '≡' Operator
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '+' Operator
 '1' Literal.Number.Integer
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' Text.Whitespace
 'factors' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subsop' Name.Builtin
 '(' Punctuation
 'i' Name
 '≡' Operator
 'NULL' Name
 ';' Operator
 'applyop' Name
 '(' Punctuation
 '^+' Name
 ';' Operator
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer

```

']'      Punctuation
','      Operator
'factors' Name
','      Operator
'1'      Literal.Number.Integer
'));'    Punctuation
'\n      ' Text.Whitespace
'break'  Keyword
'\n      ' Text.Whitespace
'end'    Keyword
''
    Text.Whitespace
'if'     Keyword
'\n      ' Text.Whitespace
'end'    Keyword
''      Text.Whitespace
'if'     Keyword
'\n      ' Text.Whitespace
'end'    Keyword
''      Text.Whitespace
'do'     Keyword
'\n      ' Text.Whitespace
'end'    Keyword
''      Text.Whitespace
'do'     Keyword
';'      Punctuation
'\n      ' Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'0'      Literal.Number.Integer
','      Operator
'e'      Name
')('     Punctuation
'op'     Name.Builtin
'('      Punctuation
'factors' Name
'))'     Punctuation
'\n      ' Text.Whitespace
'end'    Keyword
''      Text.Whitespace
'proc'   Keyword
';'      Punctuation
'\n\n    ' Text.Whitespace
'# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)\n' Comment.Single
''      Text.Whitespace
'rebase_lower' Name
''      Text.Whitespace

```

':=' Operator
 ','
 ' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'subsindets' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'And' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ';' Operator
 'Sum' Name
 ';' Operator
 'product' Name
 ';' Operator
 'Product' Name
 '})' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '\n ' Text.Whitespace
 'name' Name
 '≡' Operator
 'Not' Name
 '({' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'SymbolicInfinity'
 Name
 ';' Operator
 'undefined' Name
 '})' Punctuation
 '..' Operator

'anything' Name
 ')') Punctuation
 "" Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'do_rebase_lower' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_rebase_lower' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'subsop' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 '≡'
 Operator
 '0' Literal.Number.Integer
 ';' Operator
 '\n ' Text.Whitespace
 'applyop' Name
 '(' Punctuation
 '^~' Name
 ';' Operator
 '\n ' Text.Whitespace
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator

'2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'applyop' Name
 '(' Punctuation
 'eval' Name.Builtin
 ';' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'e'

Name

')' Punctuation
 '=' Operator
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'e' Name
 ')' Punctuation
 '+' Operator
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'e' Name
 '))' Punctuation
 ';' Operator

```

\n      ' Text.Whitespace
'op'    Name.Builtin
'(['    Punctuation
'2'     Literal.Number.Integer
';'     Operator
'2'     Literal.Number.Integer
';'     Operator
'1'     Literal.Number.Integer
']'     Punctuation
';'     Operator
'e'     Name
'))'    Punctuation
\n
'       Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
\n\n   '   Text.Whitespace
'# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)\n' Comment.Single

' '     Text.Whitespace
'rebase_upper' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
\n     '   Text.Whitespace
'subsindets' Name.Builtin
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
''''    Punctuation
'And'   Name
'('     Punctuation
'specfunc' Name
'({'    Punctuation
'sum'   Name
';'     Operator
'Sum'   Name
';'     Operator

```

'product' Name
 ';' Operator
 'Product' Name
 '})' Punctuation
 ';' Operator
 '\n
 ' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '\n ' Text.Whitespace
 'name' Name
 '≡' Operator
 'anything' Name
 '..' Operator
 'Not' Name
 '({' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'SymbolicInfinity' Name
 ';' Operator
 'undefined' Name
 '}}))' Punctuation
 '""" Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'do_rebase_upper' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_rebase_upper' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace

```

'subsop'  Name.Builtin
'(['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
']'      Punctuation
'='      Operator
'0'      Literal.Number.Integer
','      Operator
'\n     ' Text.Whitespace
'applyop' Name
'('      Punctuation
'^-`'   Name
','      Operator
'\n     ' Text.Whitespace
'['      Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'\n     ' Text.Whitespace
'applyop' Name
'('      Punctuation
'eval'   Name.Builtin
','      Operator
''      Text.Whitespace
'1'      Literal.Number.Integer
','      Operator
''
Text.Whitespace
'e'      Name
','      Operator
''      Text.Whitespace
'op'     Name.Builtin
'(['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'e'      Name
')'      Punctuation
'='      Operator

```

'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ',' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ',' Operator
 'e' Name
 ')' Punctuation
 '+' Operator
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ',' Operator
 '2' Literal.Number.Integer
 ',' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ',' Operator
 'e' Name
 '))' Punctuation
 ',' Operator
 '\n ' Text.Whitespace
 'op'
 Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ',' Operator
 '2' Literal.Number.Integer
 ',' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ',' Operator
 'e' Name
 ')))' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'ModuleLoad' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(\$)' Punctuation
 '\n ' Text.Whitespace

```

'# Override csgn to work a little bit harder on piecewise and sum\n' Comment.Single

' ' Text.Whitespace
'# (to get rid of csgn(1/2+1/2*sum(piecewise(...,1,0),...))\n' Comment.Single

' ' Text.Whitespace
'# produced by int on a Gaussian mixture model)\n' Comment.Single

' ' Text.Whitespace
'unprotect' Name
 '(' Punctuation
'csgn'
  Name
');' Punctuation
\n ' Text.Whitespace
'csgn' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'overload' Name
 '[' Punctuation
\n ' Text.Whitespace
"# Handle if the csgn of a piecewise doesn't depend on which branch\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
 '(' Punctuation
'a' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'specfunc' Name
 '(' Punctuation
'piecewise' Name.Builtin
')' Punctuation
':' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
\n ' Text.Whitespace
'option' Keyword
'' Text.Whitespace
'overload' Name
':' Punctuation
\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'r' Name

```

```

';      Operator
''      Text.Whitespace
'i'

Name
';      Punctuation
'\n    ' Text.Whitespace
'r'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'{'     Punctuation
'seq'   Name.Builtin
'('     Punctuation
'^if'   Name
'('     Punctuation
'i'     Name
'::'    Operator
'even'  Name
''      Text.Whitespace
'or'    Keyword
''      Text.Whitespace
'i'     Name
'='     Operator
'nops'  Name.Builtin
'('     Punctuation
'a'     Name
')'     Punctuation
';      Operator
''      Text.Whitespace
'csgn'  Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'i'     Name
';      Operator
'a'     Name
'))'    Punctuation
';      Operator
''      Text.Whitespace
'NULL'  Name
')'     Punctuation
';      Operator
'\n    ' Text.Whitespace
'i'

Name
'='     Operator
'1'     Literal.Number.Integer
'..'    Punctuation

```

```

'nops'   Name.Builtin
'('      Punctuation
'a'      Name
')));'   Punctuation
'\n'    ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
'='      Operator
'1'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword
''       Text.Whitespace
'return' Keyword
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'    ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'not'    Keyword
''       Text.Whitespace
'assigned' Name.Builtin
'(_'     Punctuation
'Envsignum0' Name
')'
        Punctuation
''       Text.Whitespace
'then'   Keyword
'\n'    ' Text.Whitespace
'r'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'r'      Name
''       Text.Whitespace
'minus'  Keyword
''       Text.Whitespace

```

```

'{'      Punctuation
'0'      Literal.Number.Integer
'};'     Punctuation
'\n'     ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
'='      Operator
'1'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword
''       Text.Whitespace
'return' Keyword
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'
''       ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'     ' Text.Whitespace
'error'  Keyword
''       Text.Whitespace
"invalid input: cannot csgn %1" Literal.String
';'      Operator
''       Text.Whitespace
'a'      Name
';'      Punctuation
'\n'     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Operator
'\n'     ' Text.Whitespace
"# Handle if the csgn of a sum doesn't depend on the bound variable\n" Comment.Single

```

' ' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'a' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'And' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ';' Operator
 '' Text.Whitespace
 'Sum' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'name' Name
 '=' Operator
 'range' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'option' Keyword
 '' Text.Whitespace
 'overload' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'r' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'csgn' Name

'(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'a' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 ''
 Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'r' Name
 ';' Operator
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'a' Name
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'signum' Name
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'a' Name
 ')' Punctuation
 '+' Operator
 '1' Literal.Number.Integer
 '-' Operator
 'op' Name.Builtin

```

'('
    Punctuation
'2'    Literal.Number.Integer
','    Operator
'2'    Literal.Number.Integer
','    Operator
'1'    Literal.Number.Integer
')'    Punctuation
','    Operator
'a'    Name
'))'   Punctuation
''     Text.Whitespace
'*'    Operator
''     Text.Whitespace
'r'    Name
'\n'   ' Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'if'   Keyword
';'    Punctuation
'\n'   ' Text.Whitespace
'error' Keyword
''     Text.Whitespace
'''invalid input: cannot csgn %1''' Literal.String
','    Operator
''     Text.Whitespace
'a'    Name
';'    Punctuation
'\n'   ' Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'proc' Keyword
','    Operator
'\n'   ' Text.Whitespace
'csgn' Name
']):'  Punctuation
'\n'   ' Text.Whitespace
'protect' Name
'('
    Punctuation
'csgn' Name
');'   Punctuation
'\n\n' ' Text.Whitespace
'# Do the same to signum.\n' Comment.Single

' '    Text.Whitespace
'unprotect' Name
'('    Punctuation

```

```

'signum' Name
');' Punctuation
'\n ' Text.Whitespace
'signum' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'overload' Name
'([' Punctuation
'\n ' Text.Whitespace
"# Handle if the signum of a piecewise doesn't depend on which branch\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'specfunc' Name
'(' Punctuation
'piecewise' Name.Builtin
')' Punctuation
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'option' Keyword
''

Text.Whitespace
'overload' Name
';' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'r' Name
';' Operator
'' Text.Whitespace
'i' Name
';' Punctuation
'\n ' Text.Whitespace
'r' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'{' Punctuation
'seq' Name.Builtin

```

'(' Punctuation
 '~if' Name
 '(' Punctuation
 'i' Name
 '::' Operator
 'even' Name
 '' Text.Whitespace
 'or' Keyword
 '' Text.Whitespace
 'i' Name
 '==' Operator
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'signum' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name
 ';' Operator
 'a'
 Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'NULL' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'i' Name
 '==' Operator
 '1' Literal.Number.Integer
 '::' Punctuation
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '==' Operator

'1' Literal.Number.Integer
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n' ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'assigned' Name.Builtin
 '(_' Punctuation
 'Envsignum0' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 'minus' Keyword
 '' Text.Whitespace
 '{' Punctuation
 '0' Literal.Number.Integer
 '});' Punctuation
 '\n' ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '=' Operator
 '1' Literal.Number.Integer

```

''      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'return' Keyword
''      Text.Whitespace
'op'    Name.Builtin
'('
      Punctuation
'r'     Name
')'     Punctuation
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n'    ' Text.Whitespace
'error' Keyword
''      Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
';'     Operator
''      Text.Whitespace
'a'     Name
';'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Operator
'\n'    ' Text.Whitespace
"# Handle if the signum of a sum doesn't depend on the bound variable\n" Comment.Single

' '     Text.Whitespace
'proc'  Keyword
'('     Punctuation
'a'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
'And'
      Name
'('     Punctuation
'specfunc' Name
'({'    Punctuation

```

'sum' Name
 ';' Operator
 '' Text.Whitespace
 'Sum' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'name' Name
 '≡' Operator
 'range' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'option' Keyword
 '' Text.Whitespace
 'overload' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'r' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'signum' Name
 '(' Punctuation
 'op'
 Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'a' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword

```

''      Text.Whitespace
'depends'  Name
'('      Punctuation
'r'      Name
','      Operator
'op'     Name.Builtin
'(['    Punctuation
'2'     Literal.Number.Integer
','      Operator
'1'     Literal.Number.Integer
']'     Punctuation
','      Operator
'a'     Name
'))'    Punctuation
''      Text.Whitespace
'then'   Keyword
'\n'    'Text.Whitespace
'return' Keyword
''      Text.Whitespace
'signum'  Name
'('      Punctuation
'op'     Name.Builtin
'(['    Punctuation
'2'     Literal.Number.Integer
','      Operator
'2'     Literal.Number.Integer
','      Operator
'2'     Literal.Number.Integer
']'     Punctuation
        Punctuation
','      Operator
'a'     Name
')'     Punctuation
'+'     Operator
'1'     Literal.Number.Integer
'-'     Operator
'op'     Name.Builtin
'(['    Punctuation
'2'     Literal.Number.Integer
','      Operator
'2'     Literal.Number.Integer
','      Operator
'1'     Literal.Number.Integer
']'     Punctuation
','      Operator
'a'     Name
'))'    Punctuation
''      Text.Whitespace

```

```

'*'      Operator
''       Text.Whitespace
'r'      Name
'\n     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n     ' Text.Whitespace
'error'  Keyword
''       Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
';'      Operator
''       Text.Whitespace
'a'      Name
';'      Punctuation
'\n     ' Text.Whitespace
'end'    Keyword
'
'
'       Text.Whitespace
'proc'   Keyword
';'      Operator
'\n     ' Text.Whitespace
'signum' Name
']);'    Punctuation
'\n     ' Text.Whitespace
'protect' Name
'('      Punctuation
'signum' Name
');'     Punctuation
'\n\n   ' Text.Whitespace
'# Override sum to fail faster\n' Comment.Single

' '      Text.Whitespace
'unprotect' Name
'('      Punctuation
'sum'    Name
');'     Punctuation
'\n     ' Text.Whitespace
'sum'    Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'overload' Name
'(['    Punctuation
'\n     ' Text.Whitespace
'proc'   Keyword
'('      Punctuation

```

'f' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'Not' Name
 '{' Punctuation
 '^+' Name
 ';' Operator
 '^+' Name
 '^' Operator
 'integer' Name
 '})' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'k' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'name' Name
 '=' Operator
 'And' Name
 '(' Punctuation
 'range' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 'range' Name
 '(' Punctuation
 'rational' Name
 ')))' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'option' Keyword
 '' Text.Whitespace
 'overload' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 '(' Punctuation
 '^~' Name
 '(' Punctuation

'op' Name.Builtin
 '(' Punctuation
 'rhs' Name.Builtin
 '(' Punctuation
 'k' Name
 ')))'
 Punctuation
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 'rational' Name
 '''' Punctuation
 ')' Punctuation
 '\n ' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 '(' Punctuation
 'subsindets' Name.Builtin
 '(' Punctuation
 'f' Name
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 'anything' Name
 '^' Operator
 'integer' Name
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 'f' Name
 '->' Operator
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'f' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 '{' Punctuation
 '^+'
 Name
 ';' Operator

'And' Name
 '(' Punctuation
 '^*`' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 '^*`' Name
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 '^+' Name
 '))))}' Punctuation
 '"""' Punctuation
 ')' Punctuation
 '\n ' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'indets' Name.Builtin
 '(' Punctuation
 'f' Name
 ';' Operator
 '' Text.Whitespace
 '"""' Punctuation
 '{' Punctuation
 'specfunc' Name
 '(' Punctuation
 'idx' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'specindex' Name
 '(' Punctuation
 'idx' Name
 '))}' Punctuation
 '"""' Punctuation
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op'
 Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'k' Name
 '))}' Punctuation
 '\n ' Text.Whitespace

'then' Keyword
 '\n ' Text.Whitespace
 "" Punctuation
 'procname' Name
 '(_' Punctuation
 'passed' Name
 ')' Punctuation
 "" Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 'error' Keyword
 '' Text.Whitespace
 ""invalid input: cannot fast-fail sum(%1, %2)"" Literal.String
 ';' Operator
 '' Text.Whitespace
 '_passed' Name
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Operator
 '\n ' Text.Whitespace
 'sum' Name
 ']);' Punctuation
 '\n ' Text.Whitespace
 'protect' Name
 '('
 Punctuation
 'sum' Name
 ');' Punctuation
 '\n\n ' Text.Whitespace
 ':' Operator
 '-' Operator
 '^print/Ints`' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'curry' Name
 '(' Punctuation
 'thismodule' Name
 ':' Operator
 '-' Operator
 'Print' Name

```

';'      Operator
'Ints'   Name
');'     Punctuation
'\n '    Text.Whitespace
':'      Operator
'-'      Operator
`print/Sums` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'  Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator
'Print'  Name
';'      Operator
'Sums'   Name
');'     Punctuation
'\n '    Text.Whitespace
':'      Operator
'-'      Operator
`print/ints` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'
    Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator
'Print'  Name
';'      Operator
'ints'   Name
');'     Punctuation
'\n '    Text.Whitespace
':'      Operator
'-'      Operator
`print/sums` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'  Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator

```

```

'Print'   Name
','       Operator
'sums'   Name
');'     Punctuation
'\n\n '  Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'     Punctuation
'\n '   Text.Whitespace
'ModuleLoad' Name
'()'    Punctuation
':'     Operator
'\n'   Text.Whitespace

'end'   Keyword
''      Text.Whitespace
'module' Keyword
';'     Punctuation
''      Text.Whitespace
'# Loop\n' Comment.Single
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```

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1.187 yup 1.6.1

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1.188 qs 6.14.0

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1.189 prompt-toolkit 2.0.10

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1.190 jsonschema 4.18.4

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```

Found in path(s):

```
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/schema/generations/GenerateJSONSchemaInput.java  
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/extension/JSONSchemaGenerationExtension.java  
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/extension/JSONSchemaGenerationConfigBuilder.java  
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/schema/generations/JSONSchemaConfig.java  
*  
/legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/schema/generations/JSONSchemaGenerationService.java  
No license file was found, but licenses were detected in source scan.
```

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-->

Found in path(s):

```
* /legend-engine-external-format-jsonschema-4-18-4-sources-jar/META-  
INF/maven/org.finos.legend.engine/legend-engine-external-format-jsonSchema/pom.xml
```

1.191 autobahn 24.4.2

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1.192 termcolor 1.1.0

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1.193 python-pip 25.0.1

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```
UNRECOGNIZED LICENSE; MD5 sum: b0eaf0c960a0f5d744339da436682707
UNRECOGNIZED LICENSE; MD5 sum: 45874240865793abc3a77b0bbdf3dc51
UNRECOGNIZED LICENSE; MD5 sum: 856bd8901cf18d4edc40b86012a95b26
UNRECOGNIZED LICENSE; MD5 sum: d2e8c3bce80da2a2e51cffd44205a7b1
UNRECOGNIZED LICENSE; MD5 sum: 89c981cb43c0c7a860b8a18449e92a38
UNRECOGNIZED LICENSE; MD5 sum: f7cacecf6ff92c07405436643ace4302
PKu5Z\&#license.dist-0.2.dist-info/METADATAAUT ggux]MN@s
J*VT$$ ~nH-dKp>NXw
```

'h4xOAZu'OR#diT>?ECesh
%W6Q:'nl|^?t){u-{Z0XPKa5Zhb'!license.dist-0.2.dist-info/RECORDUT ggux }r03I,HZK
m^2fXZ;wzmUnjWU]52+\Gfmy8sUP-"7DbuhoAUo9sM"T_ST
,9%=la1?O"+I[0|y:4o\$6}D
HzPs_`1rPK5d#Ahr6s%license.dist-0.2.dist-info/RECORD.jwsUT DPmgux%N@EHq()04@:*`w].9?{\$mZK'3'
}g7.hl[zMeH4 TQzI9 +g\v7+L? iOU{RC3;>>p_,7:N-f@]i#
;_*bl-X,sZzoI]4a%JQy+KI(:d=^Su`t5U@d"R7PK
d#A~XY@@ license.dist-0.2.dist-info/WHEELUT FDPmguxWheel-Version: 0.1
Packager: bdist_wheel
Root-Is-Purelib: true

PK

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info/METADATAUTguxPKa5Zhb'!)license.dist-0.2.dist-info/RECORDUTguxPK5d#Ahr6s%Vlicense.dist-0.2.dist-
info/RECORD.jwsUTDPuxPK
d#A~XY@@ license.dist-0.2.dist-info/WHEELUTFDPUxPK
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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|----------------|--------------|-----------|------------|---------------------|
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| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |

| | | | | |
|---------------|-------|----------|-----|-----|
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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- Wichert Akkerman, 2012/02/02

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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.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |

| | | | | |
|-------|-------|------|-----|-----|
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
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| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
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| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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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.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1 | 2010 | PSF | yes |
| 3.2 | 3.1 | 2010 | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.199 @types/react 16.14.62

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1.201 paramiko 3.5.1

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1.207 jinja 3.1.6

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Its the spiritual successor of [characteristic](<https://characteristic.readthedocs.io/>) and aspires to fix some of its clunkiness and unfortunate decisions.

Both were inspired by Twisted's

[FancyEqMixin](<https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html>)

but both are implemented using class decorators because [subclassing is bad for you](<https://www.youtube.com/watch?v=3MNVP9-hglc>) (except when doing [strict specialization](<https://hynek.me/articles/python-subclassing-redux/>)).

1.210 filelock 3.18.0

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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.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |

| | | | | |
|-------|-----------|-----------|-----|-----|
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1 | 2010 | PSF | yes |

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The

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python/Jython

1.215 pytz 2025.2

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1.216 boto3 1.37.19

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1.217 botocore 1.37.19

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  "version":"2.0",
  "metadata":{
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    {"shape":"AccessDeniedException"}
  ]
},
"documentation": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
},
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  ]
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"documentation": "<p>Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"

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    {"shape":"RateLimitExceededException"}
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
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  "documentation":"<p>Creates a long-lived
token.</p><p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
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generator.</p><p>This action deletes the report generator, which stops it from generating future reports. The
action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
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    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},

    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens
are valid for one hour.</p>"
},
"GetGrant":{
  "name":"GetGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets detailed information about the specified grant.</p>"
},
"GetLicense":{
  "name":"GetLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"

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    },
    "input": { "shape": "GetLicenseRequest" },
    "output": { "shape": "GetLicenseResponse" },
    "errors": [
      { "shape": "ValidationException" },
      { "shape": "InvalidParameterValueException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" },
      { "shape": "ServerInternalException" }
    ],
    "documentation": "<p>Gets detailed information about the specified license.</p>"
  },
  "GetLicenseConfiguration": {
    "name": "GetLicenseConfiguration",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "GetLicenseConfigurationRequest" },
    "output": { "shape": "GetLicenseConfigurationResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Gets detailed
information about the specified license configuration.</p>"
  },
  "GetLicenseConversionTask": {
    "name": "GetLicenseConversionTask",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "GetLicenseConversionTaskRequest" },
    "output": { "shape": "GetLicenseConversionTaskResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Gets information about the specified license type conversion task.</p>"
  },
}

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"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Gets information about the specified report generator.</p>"
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets detailed information about the usage of the specified license.</p>"
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets the License Manager settings for the current Region.</p>"
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>"
},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{

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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configuration operations that failed.</p>"
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configurations for your account.</p>"
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
}

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},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Describes the license configurations for the specified resource.</p>"
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists all versions of the specified license.</p>"
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists the licenses for your account.</p>"
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>"
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",

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"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},

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```

    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists resources managed using Systems Manager inventory.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  }
}

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    },
    "input": {"shape": "ListTokensRequest"},
    "output": {"shape": "ListTokensResponse"},
    "errors": [
      {"shape": "ValidationException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ServerInternalException"}
    ],
    "documentation": "<p>Lists your tokens.</p>"
  },
  "ListUsageForLicenseConfiguration": {
    "name": "ListUsageForLicenseConfiguration",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "ListUsageForLicenseConfigurationRequest"},
    "output": {"shape": "ListUsageForLicenseConfigurationResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "FilterLimitExceededException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ],
    "documentation": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>"
  },
  "RejectGrant": {
    "name": "RejectGrant",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "RejectGrantRequest"},
    "output": {"shape": "RejectGrantResponse"},
    "errors": [
      {"shape": "ValidationException"},
      {"shape": "InvalidParameterValueException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ResourceLimitExceededException"},
      {"shape": "ServerInternalException"}
    ]
  }

```

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    ],
    "documentation": "<p>Rejects the specified grant.</p>"
  },
  "TagResource": {
    "name": "TagResource",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "TagResourceRequest" },
    "output": { "shape": "TagResourceResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ]
  },
  "documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource": {
  "name": "UntagResource",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "UntagResourceRequest" },
  "output": { "shape": "UntagResourceResponse" },
  "errors": [
    { "shape": "InvalidParameterValueException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "RateLimitExceededException" }
  ]
},
"documentation": "<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration": {
  "name": "UpdateLicenseConfiguration",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "UpdateLicenseConfigurationRequest" },
  "output": { "shape": "UpdateLicenseConfigurationResponse" },
  "errors": [
    { "shape": "InvalidParameterValueException" },
    { "shape": "ServerInternalException" },

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications

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for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>"

```
    },
    "UpdateServiceSettings":{
      "name":"UpdateServiceSettings",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"UpdateServiceSettingsRequest"},
      "output":{"shape":"UpdateServiceSettingsResponse"},
      "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
      ],
      "documentation":"<p>Updates License Manager settings for the current Region.</p>"
    }
  },
  "shapes":{
    "AcceptGrantRequest":{
      "type":"structure",
      "required":["GrantArn"],
      "members":{
        "GrantArn":{
          "shape":"Arn",
          "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
        }
      }
    },
    "AcceptGrantResponse":{
      "type":"structure",
      "members":{
        "GrantArn":{
          "shape":"Arn",
          "documentation":"<p>Grant ARN.</p>"
        },
        "Status":{
          "shape":"GrantStatus",
          "documentation":"<p>Grant status.</p>"
        },
        "Version":{
          "shape":"String",
          "documentation":"<p>Grant version.</p>"
        }
      }
    }
  }
}
```

```

},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Access to resource denied.</p>",
  "exception":true
},
"ActivationOverrideBehavior":{
  "type":"string",
  "enum":[
    "DISTRIBUTED_GRANTS_ONLY",
    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-
Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/_+=,@.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }

```

```

    },
    "documentation": "<p>The Amazon Web Services user account does not have permission to perform the action.
Check the IAM policy associated with this account.</p>",
    "exception": true
  },
  "AutomatedDiscoveryInformation": {
    "type": "structure",
    "members": {
      "LastRunTime": {
        "shape": "DateTime",
        "documentation": "<p>Time
that automated discovery last ran.</p>"
      }
    },
    "documentation": "<p>Describes automated discovery.</p>"
  },
  "Boolean": { "type": "boolean" },
  "BorrowConfiguration": {
    "type": "structure",
    "required": [
      "AllowEarlyCheckIn",
      "MaxTimeToLiveInMinutes"
    ],
    "members": {
      "AllowEarlyCheckIn": {
        "shape": "BoxBoolean",
        "documentation": "<p>Indicates whether early check-ins are allowed.</p>"
      },
      "MaxTimeToLiveInMinutes": {
        "shape": "BoxInteger",
        "documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>"
      }
    },
    "documentation": "<p>Details about a borrow configuration.</p>"
  },
  "BoxBoolean": { "type": "boolean" },
  "BoxInteger": { "type": "integer" },
  "BoxLong": { "type": "long" },
  "CheckInLicenseRequest": {
    "type": "structure",
    "required": ["LicenseConsumptionToken"],
    "members": {
      "LicenseConsumptionToken": {
        "shape": "String",
        "documentation": "<p>License consumption token.</p>"
      }
    },
    "Beneficiary": {
      "shape": "String",

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    "documentation": "<p>License beneficiary.</p>"
  }
},
"CheckInLicenseResponse": {
  "type": "structure",
  "members": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow
consumption configuration.</p>"
    },
    "Entitlements": {
      "shape": "EntitlementDataList",
      "documentation": "<p>License entitlements. Partial checkouts are not supported.</p>"
    },
    "DigitalSignatureMethod": {
      "shape": "DigitalSignatureMethod",

      "documentation": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm
PS384. For more information, see <a href=\\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital
Signature with RSASSA-PSS</a>.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "CheckoutMetadata": {
      "shape": "MetadataList",
      "documentation": "<p>Information about constraints.</p>"
    },
    "ClientToken": {
      "shape": "ClientToken",
      "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    }
  }
}

```

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},
"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "EntitlementsAllowed":{
      "shape":"EntitlementDataList",
      "documentation":"<p>Allowed license entitlements.</p>"
    },
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    },
    "SignedToken":{
      "shape":"SignedToken",
      "documentation":"<p>Signed token.</p>"
    },
    "IssuedAt":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout expires.</p>"
    },
    "CheckoutMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about constraints.</p>"
    }
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{

```

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"ProductSKU":{
  "shape":"String",
  "documentation":"<p>Product SKU.</p>"
},
"CheckoutType":{
  "shape":"CheckoutType",
  "documentation":"<p>Checkout type.</p>"
},
"KeyFingerprint":{
  "shape":"String",
  "documentation":"<p>Key fingerprint identifying the license.</p>"
},
"Entitlements":{
  "shape":"EntitlementDataList",
  "documentation":"<p>License entitlements.</p>"
},
"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
},
"Beneficiary":{
  "shape":"String",
  "documentation":"<p>License beneficiary.</p>"
},
"NodeId":{
  "shape":"String",
  "documentation":"<p>Node ID.</p>"
}
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{
      "shape":"CheckoutType",
      "documentation":"<p>Checkout type.</p>"
    },
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "EntitlementsAllowed":{
      "shape":"EntitlementDataList",
      "documentation":"<p>Allowed license entitlements.</p>"
    },
    "SignedToken":{
      "shape":"SignedToken",

```

```

    "documentation": "<p>Signed token.</p>"
  },
  "NodeId": {
    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  },
  "IssuedAt": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout is issued.</p>"
  },
  "Expiration": {
    "shape": "ISO8601DateTime",

"documentation": "<p>Date and time at which the license checkout expires.</p>"
  },
  "LicenseArn": {
    "shape": "String",
    "documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
  }
},
"CheckoutType": {
  "type": "string",
  "enum": [
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken": {
  "type": "string",
  "max": 36,
  "min": 1
},
"ClientToken": {
  "type": "string",
  "max": 2048,
  "pattern": "\\S+"
},
"ConflictException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>There was a conflict processing the request. Try your request again.</p>",
  "exception": true
},
"ConsumedLicenseSummary": {
  "type": "structure",

```

```

"members":{
  "ResourceType":{
    "shape":"ResourceType",
    "documentation":"<p>Resource type of the resource consuming a
license.</p>"
  },
  "ConsumedLicenses":{
    "shape":"BoxLong",
    "documentation":"<p>Number of licenses consumed by the resource.</p>"
  }
},
"documentation":"<p>Details about license consumption.</p>"
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{
      "shape":"RenewType",
      "documentation":"<p>Renewal frequency.</p>"
    },
    "ProvisionalConfiguration":{
      "shape":"ProvisionalConfiguration",
      "documentation":"<p>Details about a provisional configuration.</p>"
    },
    "BorrowConfiguration":{
      "shape":"BorrowConfiguration",
      "documentation":"<p>Details about a borrow configuration.</p>"
    }
  },
  "documentation":"<p>Details about a consumption configuration.</p>"
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",

```

```

    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  },
  "GrantName": {
    "shape": "String",
    "documentation": "<p>Grant name.</p>"
  },
  "LicenseArn": {
    "shape": "Arn",
    "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "Principals": {
    "shape": "PrincipalArnList",
    "documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource
Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account
specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which
includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts
across your organization.</p> </li> </ul>"
  },
  "HomeRegion": {
    "shape": "String",
    "documentation": "<p>Home Region of the grant.</p>"
  },
  "AllowedOperations": {
    "shape": "AllowedOperationList",
    "documentation": "<p>Allowed operations for the grant.</p>"
  }
}
},
"CreateGrantResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Grant ARN.</p>"
    },
    "Status": {
      "shape": "GrantStatus",
      "documentation": "<p>Grant status.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>Grant version.</p>"
    }
  }
},
"CreateGrantVersionRequest": {
  "type": "structure",

```

```

"required":[
  "ClientToken",
  "GrantArn"
],

"members":{
  "ClientToken":{
    "shape":"ClientToken",
    "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  },
  "GrantArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
  },
  "GrantName":{
    "shape":"String",
    "documentation":"<p>Grant name.</p>"
  },
  "AllowedOperations":{
    "shape":"AllowedOperationList",
    "documentation":"<p>Allowed operations for the grant.</p>"
  },
  "Status":{
    "shape":"GrantStatus",
    "documentation":"<p>Grant status.</p>"
  },
  "StatusReason":{
    "shape":"StatusReasonMessage",
    "documentation":"<p>Grant status reason.</p>"
  },
  "SourceVersion":{
    "shape":"String",
    "documentation":"<p>Current version of the grant.</p>"
  },
  "Options":{
    "shape":"Options",
    "documentation":"<p>The options specified for the grant.</p>"
  }
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    }
  }
}

```

```

    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>New version of the grant.</p>"
    }
  }
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension used to track the license inventory.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code>
dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </li>

```

`Sockets` dimension: `allowedTenancy` | `licenseAffinityToHost` | `maximumSockets` | `minimumSockets` </p>

<p>
`vCPUs` dimension: `allowedTenancy` | `honorVcpuOptimization` | `maximumVcpus` | `minimumVcpus` </p>

<p>
The unit for `licenseAffinityToHost` is days and the range is 1 to 180. The possible values for `allowedTenancy` are `EC2-Default`, `EC2-DedicatedHost`, and `EC2-DedicatedInstance`. The possible values for `honorVcpuOptimization` are `True` and `False`.</p>

```

    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Tags to add to the
license configuration.</p>"
    },
    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>Product information.</p>"
    }
  }
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",

```

"documentation": "<p>Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>"

},

"DestinationLicenseContext":{

"shape":"LicenseConversionContext",

"documentation": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>"

}

}

},

"CreateLicenseConversionTaskForResourceResponse":{

"type":"structure",

"members":{

"LicenseConversionTaskId":{

"shape":"LicenseConversionTaskId",

"documentation": "<p>The ID of the created license type conversion task.</p>"

}

}

},

"CreateLicenseManagerReportGeneratorRequest":{

"type":"structure",

"required":[

"ReportGeneratorName",

"Type",

"ReportContext",

"ReportFrequency",

"ClientToken"

],

"members":{

"ReportGeneratorName":{

"shape":"ReportGeneratorName",

"documentation": "<p>Name of the report generator.</p>"

},

"Type":{

"shape":"ReportTypeList",

"documentation": "<p>Type of reports to generate. The following report types can be generated:</p> <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p> "

},

"ReportContext":{

"shape":"ReportContext",

"documentation": "<p>Defines the type of license configuration the report generator tracks.</p>"

},

```

    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
    },
    "ClientToken":{
      "shape":"ClientRequestToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Tags to add to the report generator.</p>"
    }
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
    }
  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    }
  }
},

```

```

"ProductName":{
  "shape":"String",
  "documentation":"<p>Product name.</p>"
},
"ProductSKU":{
  "shape":"String",
  "documentation":"<p>Product SKU.</p>"
},
"Issuer":{
  "shape":"Issuer",
  "documentation":"<p>License issuer.</p>"
},

"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region for the license.</p>"
},
"Validity":{
  "shape":"DatetimeRange",
  "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"Entitlements":{
  "shape":"EntitlementList",
  "documentation":"<p>License entitlements.</p>"
},
"Beneficiary":{
  "shape":"String",
  "documentation":"<p>License beneficiary.</p>"
},
"ConsumptionConfiguration":{
  "shape":"ConsumptionConfiguration",
  "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>"
},
"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Information about the license.</p>"
},
"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
}
}
},
"CreateLicenseResponse":{
  "type":"structure",

```

```

"members":{
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "Status":{
    "shape":"LicenseStatus",
    "documentation":"<p>License status.</p>"
  },
  "Version":{
    "shape":"String",
    "documentation":"<p>License version.</p>"
  }
}
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],

```

```

"members":{
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "LicenseName":{
    "shape":"String",
    "documentation":"<p>License name.</p>"
  },
  "ProductName":{
    "shape":"String",
    "documentation":"<p>Product name.</p>"
  },
  "Issuer":{
    "shape":"Issuer",
    "documentation":"<p>License issuer.</p>"
  },
  "HomeRegion":{

```

```

    "shape": "String",
    "documentation": "<p>Home Region of the license.</p>"
  },
  "Validity": {
    "shape": "DatetimeRange",
    "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  },
  "LicenseMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Information about the license.</p>"
  },
  "Entitlements": {
    "shape": "EntitlementList",
    "documentation": "<p>License
entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
  },
  "Status": {
    "shape": "LicenseStatus",
    "documentation": "<p>License status.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  },
  "SourceVersion": {
    "shape": "String",
    "documentation": "<p>Current version of the license.</p>"
  }
},
"CreateLicenseVersionResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>License
ARN.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>New version of the license.</p>"
    }
  }
}

```

```

    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    }
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of
the JWT token.</p>"
    },
    "RoleArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License
Manager does not check whether the roles are in use.</p>"
    },
    "ExpirationInDays":{
      "shape":"Integer",
      "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365
days.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
    }
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{

```

```

    "shape":"TokenType",
    "documentation":"<p>Token type.</p>"
  },
  "Token":{
    "shape":"TokenString",
    "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
  }
}
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{"
  "type":"structure",
  "required":["Begin"],
  "members":{"
    "Begin":{

      "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  },
  "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{"
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>The Status reason for the delete request.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  }
}
},
"DeleteGrantResponse":{

```

```

"type":"structure",
"members":{
  "GrantArn":{
    "shape":"Arn",
    "documentation":"<p>Grant ARN.</p>"
  },
  "Status":{
    "shape":"GrantStatus",
    "documentation":"<p>Grant status.</p>"
  },
  "Version":{
    "shape":"String",
    "documentation":"<p>Grant version.</p>"
  }
}
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>ID of the license configuration.</p>"
    }
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
    }
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",

```

```

"required":[
  "LicenseArn",
  "SourceVersion"
],
"members":{
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "SourceVersion":{
    "shape":"String",
    "documentation":"<p>Current version of the license.</p>"
  }
}
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    }
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{

```

```

"type":"structure",
"required":[
  "Name",
  "Unit"
],
"members":{
  "Name":{
    "shape":"String",
    "documentation":"<p>Entitlement name.</p>"
  },
  "Value":{
    "shape":"String",
    "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
  },
  "MaxCount":{
    "shape":"Long",
    "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
  },
  "Overage":{
    "shape":"BoxBoolean",
    "documentation":"<p>Indicates whether overages are allowed.</p>"
  },
  "Unit":{
    "shape":"EntitlementUnit",
    "documentation":"<p>Entitlement unit.</p>"
  },
  "AllowCheckIn":{
    "shape":"BoxBoolean",
    "documentation":"<p>Indicates whether check-ins are allowed.</p>"
  }
},
"documentation":"<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement data name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement data value.</p>"
    }
  },

```

```

"Unit":{
  "shape":"EntitlementDataUnit",
  "documentation":"<p>Entitlement data unit.</p>"
}
},
"documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{

```

```

"type":"structure",
"members":{
  "Message":{"shape":"Message"}
},
"documentation":"<p>The entitlement is not allowed.</p>",
"exception":true
},
"EntitlementUnit":{
"type":"string",
"enum":[
  "Count",
  "None",
  "Seconds",
  "Microseconds",
  "Milliseconds",
  "Bytes",
  "Kilobytes",
  "Megabytes",
  "Gigabytes",
  "Terabytes",
  "Bits",
  "Kilobits",
  "Megabits",
  "Gigabits",
  "Terabits",
  "Percent",
  "Bytes/Second",
  "Kilobytes/Second",
  "Megabytes/Second",
  "Gigabytes/Second",
  "Terabytes/Second",
  "Bits/Second",
  "Kilobits/Second",
  "Megabits/Second",
  "Gigabits/Second",
  "Terabits/Second",
  "Count/Second"
]
},
"EntitlementUsage":{
"type":"structure",
"required":[
  "Name",
  "ConsumedValue",
  "Unit"
],
"members":{
  "Name":{

```

```

    "shape":"String",
    "documentation":"<p>Entitlement usage name.</p>"
  },
  "ConsumedValue":{
    "shape":"String",
    "documentation":"<p>Resource usage consumed.</p>"
  },
  "MaxCount":{
    "shape":"String",
    "documentation":"<p>Maximum entitlement usage count.</p>"
  },
  "Unit":{
    "shape":"EntitlementDataUnit",
    "documentation":"<p>Entitlement usage unit.</p>"
  }
},
"documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    }
  },
  "DryRun":{
    "shape":"Boolean",
    "documentation":"<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
  }
}
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    }
  },
  "Expiration":{
    "shape":"ISO8601DateTime",
    "documentation":"<p>Date and time at which the license consumption expires.</p>"
  }
}

```

```

    }
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{
      "shape":"FilterValues",
      "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The request uses too many filters or too many filter values.</p>",
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{

```

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    "type": "list",
    "member": { "shape": "Filter" }
  },

  "GetAccessTokenRequest": {
    "type": "structure",
    "required": [ "Token" ],
    "members": {
      "Token": {
        "shape": "TokenString",
        "documentation": "<p>Refresh token, encoded as a JWT token.</p>"
      },
      "TokenProperties": {
        "shape": "MaxSize3StringList",
        "documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
      }
    }
  },

  "GetAccessTokenResponse": {
    "type": "structure",
    "members": {
      "AccessToken": {
        "shape": "TokenString",
        "documentation": "<p>Temporary access token.</p>"
      }
    }
  },

  "GetGrantRequest": {
    "type": "structure",
    "required": [ "GrantArn" ],
    "members": {
      "GrantArn": {
        "shape": "Arn",
        "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
      },
      "Version": {
        "shape": "String",
        "documentation": "<p>Grant version.</p>"
      }
    }
  },

  "GetGrantResponse": {
    "type": "structure",
    "members": {
      "Grant": {
        "shape": "Grant",
        "documentation": "<p>Grant details.</p>"
      }
    }
  }
}

```

```

    }
  },
  "GetLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },
  "GetLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationId":{
        "shape":"String",
        "documentation":"<p>Unique ID for the license configuration.</p>"
      },
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "Name":{
        "shape":"String",
        "documentation":"<p>Name of the license configuration.</p>"
      },
      "Description":{
        "shape":"String",
        "documentation":"<p>Description of the license configuration.</p>"
      },
      "LicenseCountingType":{
        "shape":"LicenseCountingType",
        "documentation":"<p>Dimension for which the licenses are counted.</p>"
      },
      "LicenseRules":{
        "shape":"StringList",
        "documentation":"<p>License rules.</p>"
      },
      "LicenseCount":{
        "shape":"BoxLong",
        "documentation":"<p>Number of available licenses.</p>"
      },
      "LicenseCountHardLimit":{
        "shape":"BoxBoolean",
        "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
      },
      "ConsumedLicenses":{

```

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    "shape": "BoxLong",
    "documentation": "<p>Number of licenses assigned to resources.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>License configuration status.</p>"
  },
  "OwnerAccountId": {
    "shape": "String",
    "documentation": "<p>Account ID of the owner of the license configuration.</p>"
  },
  "ConsumedLicenseSummaryList": {
    "shape": "ConsumedLicenseSummaryList",
    "documentation": "<p>Summaries of the licenses consumed by resources.</p>"
  },
  "ManagedResourceSummaryList": {
    "shape": "ManagedResourceSummaryList",
    "documentation": "<p>Summaries of the managed resources.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags for the license configuration.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  },
  "AutomatedDiscoveryInformation": {
    "shape": "AutomatedDiscoveryInformation",
    "documentation": "<p>Automated discovery information.</p>"
  },
  "DisassociateWhenNotFound": {
    "shape": "BoxBoolean",
    "documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
  }
}
},
"GetLicenseConversionTaskRequest": {
  "type": "structure",
  "required": ["LicenseConversionTaskId"],
  "members": {
    "LicenseConversionTaskId": {
      "shape": "LicenseConversionTaskId",
      "documentation": "<p>ID of the license type conversion task to retrieve information on.</p>"
    }
  }
}
},
"GetLicenseConversionTaskResponse": {

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"type":"structure",
"members":{
  "LicenseConversionTaskId":{
    "shape":"LicenseConversionTaskId",
    "documentation":"<p>ID of the license type conversion task.</p>"
  },
  "ResourceArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
  },
  "SourceLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type converted from.</p>"
  },
  "DestinationLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type converted to.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for the conversion task.</p>"
  },
  "Status":{
    "shape":"LicenseConversionTaskStatus",
    "documentation":"<p>Status of the license type conversion task.</p>"
  },
  "StartTime":{
    "shape":"DateTime",
    "documentation":"<p>Time at which the license type conversion task was started .</p>"
  },
  "LicenseConversionTime":{
    "shape":"DateTime",
    "documentation":"<p>Amount of time to complete the license type conversion.</p>"
  },
  "EndTime":{
    "shape":"DateTime",
    "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
  }
}
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",

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    "documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
  }
}
},
"GetLicenseManagerReportGeneratorResponse": {
  "type": "structure",
  "members": {
    "ReportGenerator": {
      "shape": "ReportGenerator",
      "documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
    }
  }
},
"GetLicenseRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>License version.</p>"
    }
  }
},
"GetLicenseResponse": {
  "type": "structure",
  "members": {
    "License": {
      "shape": "License",
      "documentation": "<p>License details.</p>"
    }
  }
},
"GetLicenseUsageRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
},
"GetLicenseUsageResponse": {

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"type":"structure",
"members":{
  "LicenseUsage":{
    "shape":"LicenseUsage",
    "documentation":"<p>License usage details.</p>"
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",

      "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
    },
    "SnsTopicArn":{
      "shape":"String",
      "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
    },
    "OrganizationConfiguration":{
      "shape":"OrganizationConfiguration",
      "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
    },
    "EnableCrossAccountsDiscovery":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
    },
    "LicenseManagerResourceShareArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
    }
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",

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"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
  "GrantArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
  },
  "GrantName":{
    "shape":"String",
    "documentation":"<p>Grant name.</p>"
  },
  "ParentArn":{
    "shape":"Arn",
    "documentation":"<p>Parent ARN.</p>"
  },
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>License ARN.</p>"
  },
  "GranteePrincipalArn":{
    "shape":"Arn",
    "documentation":"<p>The grantee principal ARN.</p>"
  },
  "HomeRegion":{
    "shape":"String",
    "documentation":"<p>Home Region of the grant.</p>"
  },
  "GrantStatus":{
    "shape":"GrantStatus",
    "documentation":"<p>Grant status.</p>"
  },
  "StatusReason":{
    "shape":"StatusReasonMessage",
    "documentation":"<p>Grant status reason.</p>"
  },
  "Version":{
    "shape":"String",
    "documentation":"<p>Grant version.</p>"
  },
  "GrantedOperations":{
    "shape":"AllowedOperationList",
    "documentation":"<p>Granted operations.</p>"
  },
}

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"Options":{
  "shape":"Options",
  "documentation":"<p>The options specified for the grant.</p>"
}
},
"documentation":"<p>Describes a grant.</p>"
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>Granted license issuer.</p>"
    }
  }
}

```

```

    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the granted license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>Granted license status.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>Granted license beneficiary.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license.</p>"
    },
    "LicenseMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Granted license metadata.</p>"
    },
    "CreateTime":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Creation time of the granted license.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Version of the granted license.</p>"
    },
    "ReceivedMetadata":{
      "shape":"ReceivedMetadata",
      "documentation":"<p>Granted license received metadata.</p>"
    }
  },
  "documentation":"<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
}

```

```

},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]||1-2)[0-9]T(2[0-3]||[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[ 0-3]||[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>One or more parameter values are not valid.</p>",
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the filter.</p>"
    },
    "Condition":{
      "shape":"InventoryFilterCondition",
      "documentation":"<p>Condition of the filter.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>An inventory filter.</p>"
}

```

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},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    }
  },
  "documentation":"<p>Details about the issuer of a license.</p>"
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    },
    "KeyFingerprint":{
      "shape":"String",
      "documentation":"<p>Issuer key fingerprint.</p>"
    }
  },
  "documentation":"<p>Details associated with the issuer of a license.</p>"
}

```

```

},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license.</p>"
    }
  }
},

```

```

"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>License metadata.</p>"
},
"CreateTime":{
  "shape":"ISO8601DateTime",
  "documentation":"<p>License creation time.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>License version.</p>"
}
},
"documentation":"<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID of the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension to use to track the license inventory.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>License rules.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",

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    "documentation": "<p>Number of available licenses as a hard limit.</p>"
  },
  "DisassociateWhenNotFound": {
    "shape": "BoxBoolean",
    "documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
  },
  "ConsumedLicenses": {
    "shape": "BoxLong",
    "documentation": "<p>Number of licenses consumed. </p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>Status of the license configuration.</p>"
  },
  "OwnerAccountId": {
    "shape": "String",
    "documentation": "<p>Account ID of the license
configuration's owner.</p>"
  },
  "ConsumedLicenseSummaryList": {
    "shape": "ConsumedLicenseSummaryList",
    "documentation": "<p>Summaries for licenses consumed by various resources.</p>"
  },
  "ManagedResourceSummaryList": {
    "shape": "ManagedResourceSummaryList",
    "documentation": "<p>Summaries for managed resources.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  },
  "AutomatedDiscoveryInformation": {
    "shape": "AutomatedDiscoveryInformation",
    "documentation": "<p>Automated discovery information.</p>"
  }
},
"documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with
a host), and the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
    }
  }
}

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    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of server resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of
AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation":"<p>Describes an association with a license configuration.</p>"
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of the resource.</p>"
    }
  },

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    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of
the account that owns the resource.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with the resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{
      "shape":"UsageOperation",
      "documentation":"<p>The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  }
},
"documentation":"<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>The ID of the license type conversion task.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource associated with the license type

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```

conversion task.</p>"
  },
  "SourceLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type this conversion task converted from.</p>"
  },

  "DestinationLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type this conversion task converted to.</p>"
  },
  "Status":{
    "shape":"LicenseConversionTaskStatus",
    "documentation":"<p>The status of the conversion task.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for the conversion task.</p>"
  },
  "StartTime":{
    "shape":"DateTime",
    "documentation":"<p>The time the conversion task was started at.</p>"
  },
  "LicenseConversionTime":{
    "shape":"DateTime",
    "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
  },
  "EndTime":{
    "shape":"DateTime",
    "documentation":"<p>The time the conversion task was completed.</p>"
  }
},
"documentation":"<p>Information about a
license type conversion task.</p>"
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^\\lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},

```

```

"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
  },
}

"ResourceType":{
  "shape":"ResourceType",
  "documentation":"<p>Resource type.</p>"
},
"ErrorMessage":{
  "shape":"String",
  "documentation":"<p>Error message.</p>"
},
"FailureTime":{
  "shape":"DateTime",
  "documentation":"<p>Failure time.</p>"
},
"OperationName":{
  "shape":"String",
  "documentation":"<p>Name of the operation.</p>"
},
}

```

```

"ResourceOwnerId":{
  "shape":"String",
  "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
},
"OperationRequestedBy":{
  "shape":"String",
  "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
},
"MetadataList":{
  "shape":"MetadataList",
  "documentation":"<p>Reserved.</p>"
}
},
"documentation":"<p>Describes the failure of a license operation.</p>"
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",

```

```

    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{
      "shape":"EntitlementUsageList",
      "documentation":"<p>License entitlement usages.</p>"
    }
  },
  "documentation":"<p>Describes the entitlement usage associated with a license.</p>"
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception":true
},
>ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum
number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
>ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{
      "shape":"LicenseConfigurationAssociations",
      "documentation":"<p>Information about the associations for the license configuration.</p>"
    },
    "NextToken":{

```

```

    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListDistributedGrantsRequest": {
  "type": "structure",
  "members": {
    "GrantArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results.

```

The following filters are supported:</p> <p><code>LicenseArn</code></p> <p><code>GrantStatus</code></p> <p><code>GranteePrincipalARN</code></p> <p><code>ProductSKU</code></p> <p><code>LicenseIssuerName</code></p>"

```

  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListDistributedGrantsResponse": {
  "type": "structure",
  "members": {
    "Grants": {
      "shape": "GrantList",
      "documentation": "<p>Distributed grant details.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",

```

```

    "documentation": "<p>Amazon Resource Name of the license configuration.</p>"
  },
  "MaxResults": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
  "type": "structure",
  "members": {
    "LicenseOperationFailureList": {
      "shape": "LicenseOperationFailureList",
      "documentation": "<p>License configuration operations that failed.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConfigurationsRequest": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArns": {
      "shape": "StringList",
      "documentation": "<p>Amazon Resource Names (ARN) of the license configurations.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "Filters": {
      "shape": "Filters",
      "documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p>
      <ul>
        <li><p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.</p>
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
        </li>
      </ul>"
    }
  }
}

```

`enforceLicenseCount` - A Boolean value that indicates whether hard license enforcement is used. Logical operators are `EQUALS` | `NOT_EQUALS`.

`usagelimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are `EQUALS` | `NOT_EQUALS`.

```

    }
  }
},
>ListLicenseConfigurationsResponse:{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{
      "shape":"LicenseConfigurations",
      "documentation":"<p>Information about the license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
>ListLicenseConversionTasksRequest:{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token
for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p>Filters to scope the results. Valid filters are <code>ResourceArns</code> and
<code>Status</code>. </p>"
    }
  }
},
>ListLicenseConversionTasksResponse:{
  "type":"structure",
  "members":{
    "LicenseConversionTasks":{
      "shape":"LicenseConversionTasks",
      "documentation":"<p>Information about the license configuration tasks for your account.</p>"
    },
    "NextToken":{
      "shape":"String",

```



```

    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configurations associated with a resource.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",

  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
    },
    "NextToken":{
      "shape":"String",

```



```

    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Lists the grants the organization has received.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li> <p>
<code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p>
<code>GranterAccountId</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}

```

```

    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Received grant details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of
results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"GrantedLicenseList",
      "documentation":"<p>Lists the licenses the organization has received.</p>"
    },
    "NextToken":{
      "shape":"String",

```

```

    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the licenses.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code>
</p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p>
<code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
}
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"GrantedLicenseList",
      "documentation":"<p>Received license details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
  },
}

```

```

"NextToken":{
  "shape":"String",
  "documentation":"<p>Token for the next set of results.</p>"
},
"Filters":{
  "shape":"InventoryFilterList",
  "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
  }
}
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{
      "shape":"ResourceInventoryList",
      "documentation":"<p>Information about the resources.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{

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"Tags":{
  "shape":"TagList",
  "documentation":"<p>Information about the tags.</p>"
}
},
>ListTokensRequest:{
  "type":"structure",
  "members":{
    "TokenIds":{
      "shape":"StringList",
      "documentation":"<p>Token IDs.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of
results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
>ListTokensResponse:{
  "type":"structure",
  "members":{
    "Tokens":{
      "shape":"TokenList",
      "documentation":"<p>Received token details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
>ListUsageForLicenseConfigurationRequest:{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",

```

```

    "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
  },
  "MaxResults": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  },

  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  },
  "Filters": {
    "shape": "Filters",
    "documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
  }
}
},
"ListUsageForLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationUsageList": {
      "shape": "LicenseConfigurationUsageList",
      "documentation": "<p>Information about the license configurations.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"Location": { "type": "string" },
"Long": { "type": "long" },
"ManagedResourceSummary": {
  "type": "structure",
  "members": {
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of resource associated with a license.</p>"
    }
  }
},
"AssociationCount": {
  "shape": "BoxLong",

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    "documentation": "<p>Number of resources associated with licenses.</p>"
  }
},
"documentation": "<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>The key name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>The value.</p>"
    }
  },
  "documentation":"<p>Describes key/value pairs.</p>"
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
  "exception":true
},
"Options":{

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"type":"structure",
"members":{
  "ActivationOverrideBehavior":{
    "shape":"ActivationOverrideBehavior",
    "documentation":"<p>An activation option for your grant that determines the behavior of activating a grant.
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace.
Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code>
parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an
<code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate
a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p> </dd> </dl>"
  }
},
  "documentation":"<p>The options you can specify when you create a new version of a grant, such as activation
override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>"
},
  "OrganizationConfiguration":{
    "type":"structure",
    "required":["EnableIntegration"],
    "members":{
      "EnableIntegration":{
        "shape":"Boolean",
        "documentation":"<p>Enables Organizations integration.</p>"
      }
    }
  },
  "documentation":"<p>Configuration information for Organizations.</p>"
},
  "PrincipalArnList":{
    "type":"list",
    "member":{"shape":"Arn"},
    "max":1,
    "min":1
  },
  "ProductInformation":{
    "type":"structure",
    "required":[
      "ResourceType",
      "ProductInformationFilterList"
    ]
  },

```

```

"members":{
  "ResourceType":{
    "shape":"String",
    "documentation":"<p>Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>.</p>"
  },
  "ProductInformationFilterList":{
    "shape":"ProductInformationFilterList",
    "documentation":"<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.
</p> <p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p>
<ul> <li> <p> <code>Application Name</code> - The name of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Application Publisher</code> - The publisher of the
application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application Version</code> -
The version of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform
Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p>
<code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p> </li> <li>
<p> <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude
from automated discovery. Logical
operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code>
following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is
optional if you are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of
an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> - The type of license
included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are:
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.</p> </li> </ul> <p>The following filters and logical operators are
supported when the resource type is <code>RDS</code>:</p> <ul> <li> <p> <code>Engine Edition</code> - The
edition of the database engine. Logical operator is <code>EQUALS</code>. Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p> </li> <li> <p> <code>License Pack</code> - The license pack. Logical operator is
<code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> |
<code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>.</p> </li> </ul>"
  },
  "documentation":"<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{

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"ProductInformationFilterName":{
  "shape":"String",
  "documentation":"<p>Filter name.</p>"
},
"ProductInformationFilterValue":{
  "shape":"StringList",
  "documentation":"<p>Filter value.</p>"
},
"ProductInformationFilterComparator":{
  "shape":"String",
  "documentation":"<p>Logical operator.</p>"
}
},
"documentation":"<p>Describes product information filters.</p>"
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum time for the provisional configuration, in minutes.</p>"
    }
  },
  "documentation":"<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{
      "shape":"ReceivedStatus",

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    "documentation": "<p>Received status.</p>"
  },
  "ReceivedStatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>Received status reason.</p>"
  },
  "AllowedOperations": {
    "shape": "AllowedOperationList",
    "documentation": "<p>Allowed operations.</p>"
  }
},
"documentation": "<p>Metadata associated with received licenses and grants.</p>"
},
"ReceivedStatus": {
  "type": "string",
  "enum": [
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException": {
  "type": "structure",
  "members": {
    "Location": { "shape": "Location" },
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
  "exception": true
},
"RejectGrantRequest": {
  "type": "structure",
  "required": ["GrantArn"],
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
    }
  }
},
"RejectGrantResponse": {
  "type": "structure",
  "members": {

```

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"GrantArn":{
  "shape":"Arn",
  "documentation":"<p>Grant ARN.</p>"
},
"Status":{
  "shape":"GrantStatus",
  "documentation":"<p>Grant status.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>Grant version.</p>"
}
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration that this generator reports
on.</p>"
    }
  },
  "documentation":"<p>Details of the license configuration that this generator reports on.</p>"
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{
      "shape":"Integer",
      "documentation":"<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
    },
    "period":{
      "shape":"ReportFrequencyType",
      "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
    }
  },
  "documentation":"<p>Details about how frequently reports are generated.</p>"
}

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},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{
      "shape":"String",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "ReportType":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports that are generated.</p>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>License configuration type for this generator.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Details about how frequently reports are generated.</p>"
    },
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    },
    "LastRunStatus":{
      "shape":"String",
      "documentation":"<p>Status of the
last report generation attempt.</p>"
    },
    "LastRunFailureReason":{
      "shape":"String",
      "documentation":"<p>Failure message for the last report generation attempt.</p>"
    },
    "LastReportGenerationTime":{
      "shape":"String",
      "documentation":"<p>Time the last report was generated at.</p>"
    },
    "ReportCreatorAccount":{
      "shape":"String",
      "documentation":"<p>The Amazon Web Services account ID used to create the report generator.</p>"
    }
  }
}

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    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    },
    "S3Location":{
      "shape":"S3Location",
      "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
    },
    "CreateTime":{
      "shape":"String",
      "documentation":"<p>Time the report was created.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Tags associated with the report generator.</p>"
    }
  },
  "documentation":"<p>Describe the details of a report generator.</p>"
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>ID of the resource.</p>"
    },
  },

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"ResourceType":{
  "shape":"ResourceType",
  "documentation":"<p>Type of resource.</p>"
},
"ResourceArn":{
  "shape":"String",
  "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
},
"Platform":{
  "shape":"String",
  "documentation":"<p>Platform of the resource.</p>"
},
"PlatformVersion":{
  "shape":"String",
  "documentation":"<p>Platform version of the resource in the inventory.</p>"
},
"ResourceOwningAccountId":{
  "shape":"String",
  "documentation":"<p>ID of the account that owns the resource.</p>"
}
},
"documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Your resource limits have been exceeded.</p>",
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",

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    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{
      "shape":"String",
      "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
    }
  },
  "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The server experienced an internal error. Try again.</p>",
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":"<p>Tag key.</p>"
    }
  }
}

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    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Tag value.</p>"
    }
  },
  "documentation":"<p>Details about a tag for a license configuration.</p>"
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>One or more tags.</p>"
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"String",
      "documentation":"<p>Type of token generated. The supported value is

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<code>REFRESH_TOKEN</code>.</p>"
  },
  "LicenseArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "ExpirationTime":{
    "shape":"ISO8601DateTime",
    "documentation":"<p>Token expiration time, in ISO8601-UTC format.</p>"
  },
  "TokenProperties":{
    "shape":"MaxSize3StringList",
    "documentation":"<p>Data specified by the caller.</p>"
  },
  "RoleArns":{
    "shape":"ArnList",
    "documentation":"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
  },
  "Status":{
    "shape":"String",
    "documentation":"<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
  }
},
"documentation":"<p>Describes a token.</p>"
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>The digital signature method is unsupported.
Try your request again.</p>",
"exception":true
},

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"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "TagKeys":{
      "shape":"TagKeyList",
      "documentation":"<p>Keys identifying the tags to remove.</p>"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "LicenseConfigurationStatus":{
      "shape":"LicenseConfigurationStatus",
      "documentation":"<p>New
status of the license configuration.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>New license rule. The only rule that you can add after you create a license configuration
is licenseAffinityToHost.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>New number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>New hard limit of the number of available licenses.</p>"
    }
  }
},

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    "Name":{
      "shape":"String",
      "documentation":"<p>New name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>New description of the license configuration.</p>"
    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>New
product information.</p>"
    },
    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    }
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
    },
    "ReportGeneratorName":{
      "shape":"ReportGeneratorName",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "Type":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a

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license configuration.</p> "

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    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>The report context.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Frequency by which reports are generated.</p>"
    },
    "ClientToken":{
      "shape":"ClientRequestToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    }
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
    },
    "AddLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>ARNs of the license configurations to add.</p>"
    },
    "RemoveLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>ARNs of the license configurations to remove.</p>"
    }
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
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    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager
alerts.</p>"
      },
      "OrganizationConfiguration":{
        "shape":"OrganizationConfiguration",
        "documentation":"<p>Enables integration with Organizations for cross-account discovery.</p>"
      },
      "EnableCrossAccountsDiscovery":{
        "shape":"BoxBoolean",
        "documentation":"<p>Activates cross-account discovery.</p>"
      }
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UsageOperation":{
    "type":"string",
    "max":50
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The provided input is not valid. Try your request again.</p>",
    "exception":true
  }
},
"documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple
Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [

```

```

{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack
enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {

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    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {

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    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
}

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```

}
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,

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    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",

    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",

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        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation":
"\"For custom endpoint with region set and fips disabled and dualstack disabled\",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {

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"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",

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"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "ap-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
  }
},
"params": {
  "Region": "ap-northeast-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-3",
    "UseFIPS": false,

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    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-1",

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-3.amazonaws.com"
    }
  }
}

```

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    }
  },
  "params": {
    "Region": "ap-southeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation":
  "For region ca-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ca-central-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ca-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-central-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint":
  {
      "url": "https://license-manager.eu-north-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

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    },
    {
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      "expect": {
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        }
      },
      "params": {
        "Region": "eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params":
    {
      "Region": "eu-west-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
    },

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    "params": {
      "Region": "eu-west-3",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.me-south-1.amazonaws.com"
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    },
    "params": {
      "Region": "me-south-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.sa-east-1.amazonaws.com"
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    },
    "params": {
      "Region": "sa-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-1.amazonaws.com"
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    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
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  },
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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  "endpoint": {
    "url": "https://license-manager-fips.us-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-east-2.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-2",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-east-2.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-2",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-west-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-west-1",

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        "UseDualStack": false
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},
{
    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
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        }
    },
    "params": {
        "Region": "us-west-1",
        "UseFIPS": true,
        "UseDualStack": false
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{
    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-west-2.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-west-2",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
    "expect":
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        }
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    "params": {
        "Region": "us-west-2",
        "UseFIPS": true,
        "UseDualStack": false
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{
    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {

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    }
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  "params": {
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    "UseFIPS": true,
    "UseDualStack": true
  }
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  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
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{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-northwest-1",
    "UseFIPS": false,
    "UseDualStack":

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false
  }
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{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
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    }
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  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
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{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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    "endpoint": {
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  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
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{
  "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
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    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
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{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    }
  }
}

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    }
  },
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    "UseFIPS": false,
    "UseDualStack": false
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  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
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  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
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  "expect": {
    "endpoint": {
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  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
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    "Region": "us-gov-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},

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  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
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  },
  "params": {
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    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
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    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
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    "UseFIPS": true,

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    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {

"endpoint": {
    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
  }
},
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
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{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
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    "UseDualStack": false
  }
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{
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  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {

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    "Region": "us-isob-east-1",
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    "UseDualStack": true
  }
},
{
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    "endpoint": {
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    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  }
}

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```

    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
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  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
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  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"
}

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AWS Signature Version 4 Test Suite

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{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",

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"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager User Subscriptions",
"serviceId":"License Manager User Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
},
"operations":{
  "AssociateUser":{
    "name":"AssociateUser",
    "http":{
      "method":"POST",
      "requestUri":"/user/AssociateUser",
      "responseCode":200
    },
    "input":{"shape":"AssociateUserRequest"},
    "output":{"shape":"AssociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
    "idempotent":true
  },
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    "name":"CreateLicenseServerEndpoint",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/CreateLicenseServerEndpoint",
      "responseCode":200
    },
    "input":{"shape":"CreateLicenseServerEndpointRequest"},
    "output":{"shape":"CreateLicenseServerEndpointResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},

```

```

    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
  "idempotent":true
},
"DeleteLicenseServerEndpoint":{
  "name":"DeleteLicenseServerEndpoint",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/DeleteLicenseServerEndpoint",
    "responseCode":200
  },
  "input":{"shape":"DeleteLicenseServerEndpointRequest"},
  "output":{"shape":"DeleteLicenseServerEndpointResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
  "idempotent":true
},
"DeregisterIdentityProvider":{
  "name":"DeregisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
}

```

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    ],
    "documentation": "<p>Deregisters the Active Directory identity provider from License Manager user-based
subscriptions.</p>",
    "idempotent": true
  },
  "DisassociateUser": {
    "name": "DisassociateUser",
    "http": {
      "method": "POST",
      "requestUri": "/user/DisassociateUser",
      "responseCode": 200
    },
    "input": { "shape": "DisassociateUserRequest" },
    "output": { "shape": "DisassociateUserResponse" },
    "errors": [
      { "shape": "ServiceQuotaExceededException" },
      { "shape": "ConflictException" },
      { "shape": "ValidationException" },
      { "shape": "ThrottlingException" },
      { "shape": "InternalServerError" },
      { "shape": "ResourceNotFoundException" },
      { "shape": "AccessDeniedException" }
    ],
    "documentation": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "idempotent": true
  },
  "ListIdentityProviders": {
    "name": "ListIdentityProviders",
    "http": {
      "method": "POST",
      "requestUri": "/identity-provider/ListIdentityProviders",
      "responseCode": 200
    },
    "input": { "shape": "ListIdentityProvidersRequest" },
    "output": { "shape": "ListIdentityProvidersResponse" },
    "errors": [
      { "shape": "ServiceQuotaExceededException" },
      { "shape": "ConflictException" },
      { "shape": "ValidationException" },
      { "shape": "ThrottlingException" },
      { "shape": "InternalServerError" },
      { "shape": "ResourceNotFoundException" },
      { "shape": "AccessDeniedException" }
    ],
    "documentation": "<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
  },
  "ListInstances": {

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"name":"ListInstances",
"http":{"
  "method":"POST",
  "requestUri":"/instance/ListInstances",
  "responseCode":200
},
"input":{"shape":"ListInstancesRequest"},
"output":{"shape":"ListInstancesResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListLicenseServerEndpoints":{"
"name":"ListLicenseServerEndpoints",
"http":{"
  "method":"POST",
  "requestUri":"/license-server/ListLicenseServerEndpoints",
  "responseCode":200
},
"input":{"shape":"ListLicenseServerEndpointsRequest"},
"output":{"shape":"ListLicenseServerEndpointsResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>List the Remote Desktop Services (RDS) License Server endpoints </p>"
},
"ListProductSubscriptions":{"
"name":"ListProductSubscriptions",
"http":{"
  "method":"POST",
  "requestUri":"/user/ListProductSubscriptions",
  "responseCode":200
},
"input":{"shape":"ListProductSubscriptionsRequest"},
"output":{"shape":"ListProductSubscriptionsResponse"},
"errors":[

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    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the user-based subscription products available from an identity provider.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Returns the list of tags for the specified resource.</p>"
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",

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"http":{
  "method":"POST",
  "requestUri":"/identity-provider/RegisterIdentityProvider",
  "responseCode":200
},
"input":{"shape":"RegisterIdentityProviderRequest"},
"output":{"shape":"RegisterIdentityProviderResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
"idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},
  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Starts a product subscription for a user with the specified identity provider.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",

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    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
},
"TagResource":{
  "name":"TagResource",

  "http":{
    "method":"PUT",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Adds tags to a resource.</p>",
  "idempotent":true
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Removes tags from a resource.</p>",
  "idempotent":true
}

```

```

},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Updates additional product configuration settings for the registered identity
provider.</p>",
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>You don't have sufficient access to perform this action.</p>",
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{

"ActiveDirectorySettings":{
  "shape":"ActiveDirectorySettings",
  "documentation":"<p>The <code>ActiveDirectorySettings</code> resource contains details about the Active
Directory, including network access details such as domain name and IP addresses, and the credential provider for
user administration.</p>"
  },
  "ActiveDirectoryType":{
    "shape":"ActiveDirectoryType",
    "documentation":"<p>The type of Active Directory either a self-managed Active Directory or an Amazon
Web Services Managed Active Directory.</p>"
  },
  "DirectoryId":{
    "shape":"Directory",
    "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
  }
}
}
}

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    }
  },
  "documentation": "<p>Details about an Active Directory identity provider.</p>"
},
"ActiveDirectorySettings":{
  "type":"structure",
  "members":{
    "DomainCredentialsProvider":{
      "shape":"CredentialsProvider",

      "documentation": "<p>Points to the <code>CredentialsProvider</code> resource that contains information about
the credential provider for user administration.</p>"
    },
    "DomainIpv4List":{
      "shape":"ActiveDirectorySettingsDomainIpv4ListList",
      "documentation": "<p>A list of domain IPv4 addresses that are used for the Active Directory.</p>"
    },
    "DomainName":{
      "shape":"String",
      "documentation": "<p>The domain name for the Active Directory.</p>"
    },
    "DomainNetworkSettings":{
      "shape":"DomainNetworkSettings",
      "documentation": "<p>The <code>DomainNetworkSettings</code> resource contains an array of subnets that
apply for the Active Directory.</p>"
    }
  }
},
"documentation": "<p>Contains network access and credential details that are needed for user administration in
the Active Directory.</p>"
},
"ActiveDirectorySettingsDomainIpv4ListList":{
  "type":"list",
  "member":{ "shape":"IPv4" },
  "max":2,
  "min":1
},
"ActiveDirectoryType":{
  "type":"string",
  "enum":[
    "SELF_MANAGED",
    "AWS_MANAGED"
  ]
},
"Arn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-
\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},

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```

"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
associate.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The identity provider for the user.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance that provides
the user-based subscription.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the user association.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider.</p>"
    }
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",

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"members":{
  "message":{"shape":"String"}
},
"documentation":"<p>The request couldn't be completed because it conflicted with the current state of the
resource.</p>",
"exception":true,
"fault":true
},
"CreateLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "IdentityProviderArn",
    "LicenseServerSettings"
  ],
  "members":{
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code>
resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-
managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity
details.</p>"
    },
    "LicenseServerSettings":{
      "shape":"LicenseServerSettings",
      "documentation":"<p>The <code>LicenseServerSettings</code> resource to create for the endpoint. The
settings include the type of license server and the Secrets Manager secret that enables administrators to add or
remove users associated with the license server.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the license server endpoint.</p>"
    }
  }
},
"CreateLicenseServerEndpointResponse":{
  "type":"structure",
  "members":{
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
    },
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
    }
  }
},

```

```

"CredentialsProvider":{
  "type":"structure",
  "members":{
    "SecretsManagerCredentialsProvider":{
      "shape":"SecretsManagerCredentialsProvider",
      "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
    }
  },
  "documentation":"<p>Contains information about the credential provider for user
administration.</p>",
  "union":true
},
"DeleteLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "LicenseServerEndpointArn",
    "ServerType"
  ],
  "members":{
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> resource to delete.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of License Server that the delete request refers to.</p>"
    }
  }
},
"DeleteLicenseServerEndpointResponse":{
  "type":"structure",
  "members":{
    "LicenseServerEndpoint":{
      "shape":"LicenseServerEndpoint",
      "documentation":"<p>Shows details from the <code>LicenseServerEndpoint</code> resource that was
deleted.</p>"
    }
  }
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
    }
  },

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    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the identity provider to
deregister.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  }
},
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{
      "shape":"IdentityProviderSummary",
      "documentation":"<p>Metadata that describes the results
of an identity provider operation.</p>"
    }
  }
},
"Directory":{
  "type":"string",
  "pattern":"^(d|sd)-[0-9a-f]{10}$"
},
"DisassociateUserRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
    }
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
  },
  "InstanceId":{
    "shape":"String",
    "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
  },
  "InstanceUserArn":{
    "shape":"Arn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
  }
}

```

```

    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the Active Directory identity provider for the user.</p>"
    }
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"DomainNetworkSettings":{
  "type":"structure",
  "required":["Subnets"],
  "members":{
    "Subnets":{
      "shape":"DomainNetworkSettingsSubnetsList",
      "documentation":"<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
    }
  }
},
"documentation":"<p>Contains network settings for the Active Directory domain.</p>"
},
"DomainNetworkSettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{
      "shape":"String",
      "documentation":"<p>The name of an attribute to use as a filter.</p>"
    }
  }
},
"Operation":{
  "shape":"String",
  "documentation":"<p>The type of search (For example, eq, geq, leq)</p>"
},
"Value":{
  "shape":"String",
  "documentation":"<p>Value of the filter.</p>"
}

```

```

    },
    "documentation": "<p>A filter name and value pair that is used to return more specific results from a describe or
list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes,
or IDs.</p>"
  },
  "FilterList": {
    "type": "list",
    "member": { "shape": "Filter" }
  },
  "IdentityProvider": {
    "type": "structure",
    "members": {
      "ActiveDirectoryIdentityProvider": {
        "shape": "ActiveDirectoryIdentityProvider",
        "documentation": "<p>The <code>ActiveDirectoryIdentityProvider</code>
resource contains settings and other details about a specific Active Directory identity provider.</p>"
      }
    },
    "documentation": "<p>Refers to an identity provider.</p>",
    "union": true
  },
  "IdentityProviderSummary": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
      "Settings",
      "Status"
    ],
    "members": {
      "FailureMessage": {
        "shape": "String",
        "documentation": "<p>The failure message associated with an identity provider.</p>"
      },
      "IdentityProvider": {
        "shape": "IdentityProvider",
        "documentation": "<p>The <code>IdentityProvider</code> resource contains information about an identity
provider.</p>"
      },
      "IdentityProviderArn": {
        "shape": "Arn",
        "documentation": "<p>The Amazon Resource Name (ARN) of the identity provider.</p>"
      },
      "Product": {
        "shape": "String",
        "documentation": "<p>The
name of the user-based subscription product.</p>"
      }
    },
  },

```

```

"Settings":{
  "shape":"Settings",
  "documentation":"<p>The <code>Settings</code> resource contains details about the registered identity
providers product related configuration settings, such as the subnets to provision VPC endpoints.</p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>The status of the identity provider.</p>"
}
},
"documentation":"<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "LastStatusCheckDate":{
      "shape":"String",
      "documentation":"<p>The date of the last status check.</p>"
    },
    "Products":{
      "shape":"StringList",
      "documentation":"<p>A list of provided user-based subscription products.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of an EC2 instance resource.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for an EC2 instance.</p>"
    }
  },
  "documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList":{

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```

"type":"list",
"member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
>Status",
Username"
],
"members":{
"AssociationDate":{
"shape":"String",
"documentation":"<p>The date a user was associated with an EC2 instance.</p>"
},
"DisassociationDate":{
"shape":"String",
"documentation":"<p>The date a user was disassociated from an EC2 instance.</p>"
},
"Domain":{
"shape":"String",
"documentation":"<p>The domain name of the Active Directory that contains the user information for the
product subscription.</p>"
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":"<p>The <code>IdentityProvider</code> resource specifies details about the identity
provider.</p>"
},
"InstanceId":{
"shape":"String",
"documentation":"<p>The ID of the EC2 instance that provides user-based subscriptions.</p>"
},
"InstanceUserArn":{
"shape":"Arn",
"documentation":"<p>The Amazon Resource Name (ARN) that identifies the instance user.</p>"
},
>Status":{
"shape":"String",
"documentation":"<p>The status of a user associated with an EC2 instance.</p>"
},
>StatusMessage":{
"shape":"String",
"documentation":"<p>The status message for users of an EC2 instance.</p>"
},

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```

    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider for the user.</p>"
    }
  },
  "documentation":"<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>An exception occurred with the service.</p>",
  "error":{"statusCode":500},
  "exception":true,
  "fault":true
},
"IPv4":{
  "type":"string",

  "pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
},
"LicenseServer":{
  "type":"structure",
  "members":{
    "HealthStatus":{
      "shape":"LicenseServerHealthStatus",
      "documentation":"<p>The health status of the RDS license server.</p>"
    },
    "Ipv4Address":{
      "shape":"String",
      "documentation":"<p>A list of domain IPv4 addresses that are used for the RDS license server.</p>"
    },
    "ProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server.</p>"
    }
  },
  "documentation":"<p>Information about a Remote Desktop Services (RDS) license server.</p>"
},
"LicenseServerEndpoint":{
  "type":"structure",
  "members":{
    "CreationTime":{

```

```

    "shape": "Timestamp",
    "documentation": "<p>The timestamp when License
Manager created the license server endpoint.</p>"
  },
  "IdentityProviderArn": {
    "shape": "String",
    "documentation": "<p>The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint.</p>"
  },
  "LicenseServerEndpointArn": {
    "shape": "Arn",
    "documentation": "<p>The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server.</p>"
  },
  "LicenseServerEndpointId": {
    "shape": "LicenseServerEndpointId",
    "documentation": "<p>The ID of the license server endpoint.</p>"
  },
  "LicenseServerEndpointProvisioningStatus": {
    "shape": "LicenseServerEndpointProvisioningStatus",
    "documentation": "<p>The current state of the provisioning process for the RDS license server endpoint</p>"
  },
  "LicenseServers": {
    "shape": "LicenseServerList",
    "documentation": "<p>An array of <code>LicenseServer</code>
resources that represent the license servers that are accessed through this endpoint.</p>"
  },
  "ServerEndpoint": {
    "shape": "ServerEndpoint",
    "documentation": "<p>The <code>ServerEndpoint</code> resource contains the network address of the RDS
license server endpoint.</p>"
  },
  "ServerType": {
    "shape": "ServerType",
    "documentation": "<p>The type of license server.</p>"
  },
  "StatusMessage": {
    "shape": "String",
    "documentation": "<p>The message associated with the provisioning status, if there is one.</p>"
  }
}
"documentation": "<p>Contains details about a network endpoint for a Remote Desktop Services (RDS) license
server.</p>"
},
"LicenseServerEndpointId": { "type": "string" },
"LicenseServerEndpointList": {
  "type": "list",
  "member": { "shape": "LicenseServerEndpoint" }
}

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},
"LicenseServerEndpointProvisioningStatus":{
  "type":"string",
  "enum":[
    "PROVISIONING",
    "PROVISIONING_FAILED",
    "PROVISIONED",
    "DELETING",
    "DELETION_FAILED",
    "DELETED"
  ]
},
"LicenseServerHealthStatus":{
  "type":"string",
  "enum":[
    "HEALTHY",
    "UNHEALTHY",
    "NOT_APPLICABLE"
  ]
},
"LicenseServerList":{
  "type":"list",
  "member":{"shape":"LicenseServer"}
},
"LicenseServerSettings":{
  "type":"structure",
  "required":[
    "ServerSettings",
    "ServerType"
  ],
  "members":{
    "ServerSettings":{
      "shape":"ServerSettings",
      "documentation":"<p>The <code>ServerSettings</code> resource contains the settings for your server.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of license server.</p>"
    }
  },
  "documentation":"<p>The settings to configure your license server.</p>"
},
>ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Product</p>"
    }
  }
}

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</li> <li> <p>DirectoryId</p> </li> </ul>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>The maximum number of results to return from a single request.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
  }
}
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{
      "shape":"IdentityProviderSummaryList",
      "documentation":"<p>An array of <code>IdentityProviderSummary</code> resources that contain details
about the
Active Directory identity providers that meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>InstanceId</p> </li> </ul>"
    }
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>The maximum number of results to return from a single request.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
  }
}

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    }
  },
  "ListInstancesResponse":{
    "type":"structure",
    "members":{
      "InstanceSummaries":{
        "shape":"InstanceSummaryList",
        "documentation":"<p>An array of <code>InstanceSummary</code> resources that contain details about the
instances that provide user-based subscriptions and also meet the request criteria.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
      }
    }
  },
  "ListLicenseServerEndpointsRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>You can use the following filters to streamline results:</p>
<ul> <li> <p>IdentityProviderArn</p> </li> </ul>"
      },
      "MaxResults":{
        "shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
        "documentation":"<p>The maximum number of results to return from a single request.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      }
    }
  },
  "ListLicenseServerEndpointsRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },
  "ListLicenseServerEndpointsResponse":{
    "type":"structure",
    "members":{
      "LicenseServerEndpoints":{
        "shape":"LicenseServerEndpointList",

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    "documentation": "<p>An array of <code>LicenseServerEndpoint</code> resources that contain detailed
information about the RDS License Servers that meet the request criteria.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
  }
},
"ListProductSubscriptionsRequest": {
  "type": "structure",
  "required": ["IdentityProvider"],
  "members": {
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
    },
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>The maximum number of results to return from
a single request.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  }
},
"ListProductSubscriptionsResponse": {
  "type": "structure",
  "members": {
    "NextToken": {
      "shape": "String",

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"documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"

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    },
    "ProductUserSummaries": {
      "shape": "ProductUserSummaryList",
      "documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  }
},
"ListTagsForResourceRequest": {
  "type": "structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {
      "shape": "ResourceArn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the resource whose tags you want to
retrieve.</p>",
      "location": "uri",
      "locationName": "ResourceArn"
    }
  }
},
"ListTagsForResourceResponse": {
  "type": "structure",
  "members": {
    "Tags": {
      "shape": "Tags",
      "documentation": "<p>The tags for the specified resource.</p>"
    }
  }
},
"ListUserAssociationsRequest": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "InstanceId"
  ],
  "members": {
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>You
can use the following filters to streamline results:</p> <ul> <li> <p>Status</p> </li> <li> <p>Username</p> </li>
<li> <p>Domain</p> </li> </ul>"
    }
  },
  "IdentityProvider": {
    "shape": "IdentityProvider",
    "documentation": "<p>An object that specifies details for the identity provider.</p>"
  }
}
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    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    }
  }
},
"ListUserAssociationsResponse":{
  "type":"structure",
  "members":{
    "InstanceUserSummaries":{
      "shape":"InstanceUserSummaryList",
      "documentation":"<p>Metadata that describes the list user association operation.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user information for the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies

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details for the identity provider.</p>"

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  },
  "Product":{
    "shape":"String",
    "documentation":"<p>The name of the user-based subscription product.</p>"
  },
  "ProductUserArn":{
    "shape":"Arn",
    "documentation":"<p>The Amazon Resource Name (ARN) for this product user.</p>"
  },
  "Status":{
    "shape":"String",
    "documentation":"<p>The status of a product for this user.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for a product for this user.</p>"
  },
  "SubscriptionEndDate":{
    "shape":"String",
    "documentation":"<p>The end date of a subscription.</p>"
  },
  "SubscriptionStartDate":{
    "shape":"String",
    "documentation":"<p>The start date of a subscription.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation":"<p>The user name
from the identity provider for this product user.</p>"
  }
},
"documentation":"<p>A summary of the user-based subscription products for a specific user.</p>"
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RdsSalSettings":{
  "type":"structure",
  "required":["RdsSalCredentialsProvider"],
  "members":{
    "RdsSalCredentialsProvider":{
      "shape":"CredentialsProvider",
      "documentation":"<p>The <code>CredentialsProvider</code> resource contains a reference to the credentials
provider that's used for RDS license server user administration.</p>"
    }
  }
},
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"documentation": "<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
},
"RegisterIdentityProviderRequest": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "Product"
  ],
  "members": {
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider to register.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Settings": {
      "shape": "Settings",
      "documentation": "<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
    },
    "Tags": {
      "shape": "Tags",
      "documentation": "<p>The tags that apply to the identity provider's registration.</p>"
    }
  }
},
"RegisterIdentityProviderResponse": {
  "type": "structure",
  "required": ["IdentityProviderSummary"],
  "members": {
    "IdentityProviderSummary": {
      "shape": "IdentityProviderSummary",
      "documentation": "<p>Metadata that describes the results of an identity provider operation.</p>"
    }
  }
},
"ResourceArn": {
  "type": "string",
  "pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException": {
  "type": "structure",

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"members":{
  "message":{"shape":"String"}
},
"documentation":"<p>The resource couldn't be found.</p>",
"error":{
  "statusCode":404,
  "senderFault":true
},
"exception":true
},
"SecretsManagerCredentialsProvider":{
  "type":"structure",
  "members":{
    "SecretId":{
      "shape":"SecretsManagerCredentialsProviderSecretIdString",
      "documentation":"<p>The ID of the Secrets Manager secret that contains credentials.</p>"
    }
  },
  "documentation":"<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
},
"SecretsManagerCredentialsProviderSecretIdString":{
  "type":"string",
  "min":1
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},
"ServerEndpoint":{
  "type":"structure",
  "members":{
    "Endpoint":{
      "shape":"String",
      "documentation":"<p>The network address of the endpoint.</p>"
    }
  },
  "documentation":"<p>A network endpoint through which you can access one or more servers.</p>"
},
"ServerSettings":{
  "type":"structure",
  "members":{
    "RdsSalSettings":{
      "shape":"RdsSalSettings",
      "documentation":"<p>The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server.</p>"
    }
  }
}

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    }
  },
  "documentation": "<p>Contains
settings for a specific server.</p>",
  "union": true
},
"ServerType": {
  "type": "string",
  "enum": ["RDS_SAL"]
},
"ServiceQuotaExceededException": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>The request failed because a service quota is exceeded.</p>",
  "exception": true
},
"Settings": {
  "type": "structure",
  "required": [
    "SecurityGroupId",
    "Subnets"
  ],
  "members": {
    "SecurityGroupId": {
      "shape": "SecurityGroup",
      "documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoint for activation servers.</p>"
    },
    "Subnets": {
      "shape": "SettingsSubnetsList",
      "documentation": "<p>The subnets defined for the registered identity provider.</p>"
    }
  },
  "documentation": "<p>The registered identity providers
product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID
that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC.</p>"
},
"SettingsSubnetsList": {
  "type": "list",
  "member": { "shape": "Subnet" },
  "min": 1
},
"StartProductSubscriptionRequest": {
  "type": "structure",
  "required": [

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    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to start the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The
name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply to the product subscription.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider of the user.</p>"
    }
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{
      "shape":"ProductUserSummary",
      "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
    }
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to stop the
product subscription.</p>"
    }
  }
}

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    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "ProductUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the product user.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider for the user.</p>"
    }
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{
      "shape":"ProductUserSummary",
      "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
    }
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"^subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,

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    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "Tags"
    ],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags to apply to the specified resource.</p>"
      }
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
    "exception":true
  },
  "Timestamp":{"type":"timestamp"},
  "UntagResourceRequest":{
    "type":"structure",
    "required":[

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    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{
      "shape":"ResourceArn",
      "documentation":"<p>The Amazon
Resource Name (ARN) of the resource that you want to remove tags from.</p>",
      "location":"uri",
      "locationName":"ResourceArn"
    },
    "TagKeys":{
      "shape":"TagKeyList",
      "documentation":"<p>The tag keys to remove from the resource.</p>",
      "location":"querystring",
      "locationName":"tagKeys"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":["UpdateSettings"],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider to update.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code>
| <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
<code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  },
  "UpdateSettings":{
    "shape":"UpdateSettings",
    "documentation":"<p>Updates the registered identity providers product related configuration settings. You can
update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to
add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
  }
}
}

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},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
    },
    "RemoveSubnets":{
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets to remove.</p>"
    },
    "SecurityGroupId":{
      "shape":"SecurityGroup",
      "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  },
  "documentation":"<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>A parameter
is not valid.</p>",
  "exception":true
},
"documentation":"<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}
{
  "version": "1.0",

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"parameters": {
  "Region": {
    "builtIn": "AWS::Region",
    "required": false,
    "documentation": "The AWS region used to dispatch the request.",
    "type": "String"
  },
  "UseDualStack": {
    "builtIn": "AWS::UseDualStack",
    "required": true,
    "default": false,
    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {
    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",

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      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    },
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
      },
      {
        "conditions": [],
        "endpoint": {
          "url": {
            "ref": "Endpoint"
          },
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ],
    "type": "tree"
  },
  "type": "tree"
},
{

```

```

"conditions": [],
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Region"
          }
        ]
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "aws.partition",
            "argv": [
              {
                "ref": "Region"
              }
            ],
            "assign": "PartitionResult"
          }
        ],
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
            }
          }
        ]
      }
    ]
  }
]

```

```

    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ],
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            },
            "supportsDualStack"
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [],
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

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        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ]
}
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            }
        ]
    }
]

```

```

    },
    true
  ]
}
],
"rules": [
  {
    "conditions": [],
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ],
    "type": "tree"
  }
],
"type": "tree"
},
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ]
}
],

```

```

"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,

          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsDualStack"
            ]
          }
        ]
      }
    ]
  },
  {
    "rules": [
      {
        "conditions": [],
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ],
        "type": "tree"
      }
    ],
    "type": "tree"
  },
  {
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
  }
],

```

```

        "type": "tree"
    },
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {}},
                "headers": {}
            },
            {
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
],
"type": "tree"
}
]
}
{
    "pagination": {
        "ListAssociationsForLicenseConfiguration": {
            "input_token": "NextToken",
            "limit_key": "MaxResults",
            "output_token": "NextToken",
            "result_key": "LicenseConfigurationAssociations"
        },
        "ListLicenseConfigurations": {
            "input_token": "NextToken",
            "limit_key": "MaxResults",
            "output_token": "NextToken",
            "result_key": "LicenseConfigurations"
        }
    }
}

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},
"ListLicenseSpecificationsForResource": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "LicenseSpecifications"
},
"ListResourceInventory": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "ResourceInventoryList"
},
"ListUsageForLicenseConfiguration": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "LicenseConfigurationUsageList"
}
}
}
{
  "pagination": {
    "ListLinuxSubscriptionInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Instances"
    },
    "ListLinuxSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Subscriptions"
    },
    "ListRegisteredSubscriptionProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "RegisteredSubscriptionProviders"
    }
  }
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",

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"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
},
"operations":{
  "DeregisterSubscriptionProvider":{
    "name":"DeregisterSubscriptionProvider",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/DeregisterSubscriptionProvider",
      "responseCode":200
    },
    "input":{"shape":"DeregisterSubscriptionProviderRequest"},
    "output":{"shape":"DeregisterSubscriptionProviderResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL)
subscriptions registered to your account.</p>",
    "idempotent":true
  },
  "GetRegisteredSubscriptionProvider":{
    "name":"GetRegisteredSubscriptionProvider",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
      "responseCode":200
    },
    "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
    "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your
account.</p>",
    "idempotent":true
  }
}

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    },
    "getServiceSettings":{
      "name":"getServiceSettings",
      "http":{
        "method":"POST",
        "requestUri":"/subscription/GetServiceSettings",
        "responseCode":200
      },
      "input":{"shape":"GetServiceSettingsRequest"},
      "output":{"shape":"GetServiceSettingsResponse"},
      "errors":[
        {"shape":"InternalServerError"},
        {"shape":"ThrottlingException"},
        {"shape":"ValidationException"}
      ],
      "documentation":"<p>Lists the Linux subscriptions service settings for your account.</p>",
      "idempotent":true
    },
    "ListLinuxSubscriptionInstances":{
      "name":"ListLinuxSubscriptionInstances",
      "http":{
        "method":"POST",
        "requestUri":"/subscription/ListLinuxSubscriptionInstances",
        "responseCode":200
      },
      "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
      "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
      "errors":[
        {"shape":"InternalServerError"},
        {"shape":"ThrottlingException"},
        {"shape":"ValidationException"}
      ],
      "documentation":"<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux
subscriptions.</p>",
      "idempotent":true
    },
    "ListLinuxSubscriptions":{
      "name":"ListLinuxSubscriptions",
      "http":{
        "method":"POST",
        "requestUri":"/subscription/ListLinuxSubscriptions",
        "responseCode":200
      },
      "input":{"shape":"ListLinuxSubscriptionsRequest"},
      "output":{"shape":"ListLinuxSubscriptionsResponse"},
      "errors":[
        {"shape":"InternalServerError"},
        {"shape":"ThrottlingException"},

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    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "idempotent":true
},
"ListRegisteredSubscriptionProviders":{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200
  },
  "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
  "idempotent":true
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>List the metadata tags that are assigned to the specified Amazon Web Services resource.</p>"
},
"RegisterSubscriptionProvider":{
  "name":"RegisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
  },

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    },
    "input":{"shape":"RegisterSubscriptionProviderRequest"},
    "output":{"shape":"RegisterSubscriptionProviderResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
    "idempotent":true
  },
  "TagResource":{"
    "name":"TagResource",
    "http":{"
      "method":"PUT",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"TagResourceRequest"},
    "output":{"shape":"TagResourceResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
    "idempotent":true
  },
  "UntagResource":{"
    "name":"UntagResource",
    "http":{"
      "method":"DELETE",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Remove one or more metadata tag from the specified Amazon Web Services resource.</p>",
    "idempotent":true
  },
  "UpdateServiceSettings":{"
    "name":"UpdateServiceSettings",

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"http":{
  "method":"POST",
  "requestUri":"/subscription/UpdateServiceSettings",
  "responseCode":200
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"documentation":"<p>Updates the service settings for Linux subscriptions.</p>",
"idempotent":true
}
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{
      "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the subscription provider resource to
deregister.</p>"
      }
    }
  },
  "DeregisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Filter":{
    "type":"structure",
    "members":{

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    "Name":{
      "shape":"String",
      "documentation":"<p>The type of name to filter by.</p>"
    },
    "Operator":{
      "shape":"Operator",
      "documentation":"<p>An operator for filtering results.</p>"
    },
    "Values":{
      "shape":"StringList",
      "documentation":"<p>One or more values for the name to filter by.</p>"
    }
  },
  "documentation":"<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>"
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetRegisteredSubscriptionProviderRequest":{
  "type":"structure",
  "required":["SubscriptionProviderArn"],
  "members":{
    "SubscriptionProviderArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>"
    }
  }
},
"GetRegisteredSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{
      "shape":"String",
      "documentation":"<p>The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider.</p>"
    },
    "SecretArn":{
      "shape":"SecretArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request.</p>"
    }
  }
},
"SubscriptionProviderArn":{
  "shape":"SubscriptionProviderArn",
  "documentation":"<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in

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the request.</p>"
  },
  "SubscriptionProviderSource":{
    "shape":"SubscriptionProviderSource",
    "documentation":"<p>The subscription provider for the BYOL registration resource specified in the
request.</p>"
  },
  "SubscriptionProviderStatus":{
    "shape":"SubscriptionProviderStatus",
    "documentation":"<p>The status of the Linux subscription provider access token from the last successful
subscription data request.</p>"
  },
  "SubscriptionProviderStatusMessage":{
    "shape":"String",
    "documentation":"<p>The detailed message from your subscription provider token status.</p>"
  }
}
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{
      "shape":"StringList",
      "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",
      "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscoverySettings":{
      "shape":"LinuxSubscriptionsDiscoverySettings",
      "documentation":"<p>Lists the settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    },
    "Status":{
      "shape":"Status",
      "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
    },
    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A

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message which details the Linux subscriptions service settings current status.</p>"

```
    }
  }
},
"Instance":{
  "type":"structure",
  "members":{
    "AccountID":{
      "shape":"String",
      "documentation":"<p>The account ID which owns the instance.</p>"
    },
    "AmiId":{
      "shape":"String",
      "documentation":"<p>The AMI ID used to launch the instance.</p>"
    },
    "DualSubscription":{
      "shape":"String",
      "documentation":"<p>Indicates that you have two different license subscriptions for the same software on your
instance.</p>"
    },
    "InstanceID":{
      "shape":"String",
      "documentation":"<p>The instance ID of the resource.</p>"
    },
    "InstanceType":{
      "shape":"String",
      "documentation":"<p>The instance type of the resource.</p>"
    },
    "LastUpdatedTime":{
      "shape":"String",
      "documentation":"<p>The
time in which the last discovery updated the instance details.</p>"
    },
    "OsVersion":{
      "shape":"String",
      "documentation":"<p>The operating system software version that runs on your instance.</p>"
    },
    "ProductCode":{
      "shape":"ProductCodeList",
      "documentation":"<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
    },
    "Region":{
      "shape":"String",
      "documentation":"<p>The Region the instance is running in.</p>"
    },
    "RegisteredWithSubscriptionProvider":{
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    "shape": "String",
    "documentation": "<p>Indicates that your instance uses a BYOL license subscription from a third-party Linux
subscription provider that you've registered with License Manager.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of the instance.</p>"
  },
  "SubscriptionName": {
    "shape": "String",
    "documentation": "<p>The name of the license subscription that the instance uses.</p>"
  },
  "SubscriptionProviderCreateTime": {
    "shape": "String",
    "documentation": "<p>The timestamp when you registered the third-party Linux subscription provider for the
subscription that the instance uses.</p>"
  },
  "SubscriptionProviderUpdateTime": {
    "shape": "String",
    "documentation": "<p>The timestamp from the last time that the instance synced with the registered third-party
Linux subscription provider.</p>"
  },
  "UsageOperation": {
    "shape": "String",
    "documentation": "<p>The usage operation of the instance. For more information, see For more information,
see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage
operation values</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
},
"InstanceList": {
  "type": "list",
  "member": { "shape": "Instance" }
},
"InternalServerError": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>An exception occurred with the service.</p>",
  "exception": true,
  "fault": true
},
"LinuxSubscriptionsDiscovery": {
  "type": "string",
  "enum": [

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    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{
      "shape":"OrganizationIntegration",
      "documentation":"<p>Details
if you have enabled resource discovery across your accounts in Organizations.</p>"
    },
    "SourceRegions":{
      "shape":"StringList",
      "documentation":"<p>The Regions in which to discover data for Linux subscriptions.</p>"
    }
  },
  "documentation":"<p>Lists the settings defined for discovering Linux subscriptions.</p>"
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results by your specified criteria. For
example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code>
operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-
west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key
to streamline results:</p>
<ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p>
<code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p>
<code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p>
<code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p>
<code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following
<code>Operator</code> values to define the behavior of the filter:</p> <ul> <li> <p> <code>contains</code> </p>
</li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
    }
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>The maximum items to return in a request.</p>"
  },
  "NextToken":{
    "shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
    "documentation":"<p>A token to specify where to start paginating.

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This is the nextToken from a previously truncated response.</p>"
  }
},
"documentation":"<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{
      "shape":"InstanceList",
      "documentation":"<p>An array that contains instance objects.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of
<code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't
match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p>
<code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p>
<code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code>
</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionsRequestNextTokenString",
      "documentation":"<p>A token to specify where
to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  }
}

```

```

    },
    "documentation": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
  },
  "ListLinuxSubscriptionsRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{
        "shape":"String",
        "documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
      },
      "Subscriptions":{
        "shape":"SubscriptionList",
        "documentation": "<p>An array that contains subscription objects.</p>"
      }
    }
  },
  "ListRegisteredSubscriptionProvidersRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
        "documentation": "<p>The maximum items to return in a request.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      },
      "SubscriptionProviderSources":{
        "shape":"SubscriptionProviderSourceList",
        "documentation": "<p>To filter your results, specify which subscription providers to return in the list.</p>"
      }
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },

```

```

"ListRegisteredSubscriptionProvidersResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't
included in this request. Use this token with the next request to retrieve additional objects.</p>"
    },
    "RegisteredSubscriptionProviders":{
      "shape":"RegisteredSubscriptionProviderList",
      "documentation":"<p>The list of BYOL registration resources that fit the criteria you specified in the
request.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource for which to list metadata
tags.</p>",
      "location":"uri",
      "locationName":"resourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{
      "shape":"Tags",
      "documentation":"<p>The metadata tags for the requested resource.</p>"
    }
  }
},
"Operator":{
  "type":"string",
  "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
  "min":1

```

```

},
"OrganizationIntegration":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
  "type":"structure",
  "required":[
    "SecretArn",
    "SubscriptionProviderSource"
  ],
  "members":{
    "SecretArn":{
      "shape":"SecretArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>The supported Linux subscription provider to register.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The metadata tags to assign to your registered Linux subscription provider resource.</p>"
    }
  }
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>The Linux subscription provider that you registered.</p>"
    }
  }
},

```

```

"SubscriptionProviderStatus":{
  "shape":"SubscriptionProviderStatus",
  "documentation":"<p>Indicates the status of the registration action for
the Linux subscription provider that you requested.</p>"
}
},
"RegisteredSubscriptionProvider":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{
      "shape":"String",
      "documentation":"<p>The timestamp from the last time that License Manager accessed third-party
subscription data for your account from your registered Linux subscription provider.</p>"
    },
    "SecretArn":{
      "shape":"SecretArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your
registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"
    },
    "SubscriptionProviderArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>A supported third-party Linux subscription provider. License Manager currently
supports Red Hat subscriptions.</p>"
    },
    "SubscriptionProviderStatus":{
      "shape":"SubscriptionProviderStatus",
      "documentation":"<p>Indicates the status of your registered Linux subscription provider access token from the
last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the
offline token.</p>"
    },
    "SubscriptionProviderStatusMessage":{
      "shape":"String",
      "documentation":"<p>A detailed message that's associated with your BYOL subscription provider token
status.</p>"
    }
  },
  "documentation":"<p>A third-party provider for operating system (OS) platform software and license
subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can
get subscription
data from the registered provider.</p>"
},

```

```

"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>Unable to find the requested Amazon Web Services resource.</p>",
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
>Status":{
  "type":"string",
  "enum":[
    "InProgress",
    "Completed",
    "Successful",
    "Failed"
  ]
},
String":{"type":"string"},
StringList:{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
StringListMemberString:{
  "type":"string",
  "max":100,
  "min":1
},
StringMap:{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
Subscription:{
  "type":"structure",
  "members":{
    "InstanceCount":{
      "shape":"BoxLong",
      "documentation":"<p>The total amount of running instances using this subscription.</p>"
    }
  }
}

```

```

    },
    "Name":{
      "shape":"String",
      "documentation":"<p>The name of the subscription.</p>"
    },
    "Type":{
      "shape":"String",
      "documentation":"<p>The type of subscription. The type can be subscription-included with Amazon EC2,
Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain
subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon
EC2 or BYOS.</p>"
    }
  },
  "documentation":"<p>An object which details a discovered Linux subscription.</p>"
},
"SubscriptionList":{
  "type":"list",
  "member":{"shape":"Subscription"}
},
"SubscriptionProviderArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-
z0-9-\\.]{1,510}$"
},
"SubscriptionProviderSource":{
  "type":"string",
  "enum":["RedHat"]
},
"SubscriptionProviderSourceList":{
  "type":"list",
  "member":{"shape":"SubscriptionProviderSource"}
},
"SubscriptionProviderStatus":{
  "type":"string",
  "enum":[
    "ACTIVE",
    "INVALID",
    "PENDING"
  ]
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"TagResourceRequest":{

```

```

    "type":"structure",
    "required":[
      "resourceArn",
      "tags"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon
Web Services resource to which to add the specified metadata tags.</p>",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tags":{
        "shape":"Tags",
        "documentation":"<p>The metadata tags to assign to the Amazon Web Services resource. Tags are formatted
as key value pairs.</p>"
      }
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied due to request throttling.</p>",
    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tagKeys"
    ],
    "members":{

```

```

"resourceArn":{
  "shape":"SubscriptionProviderArn",
  "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove
the metadata tags from.</p>",
  "location":"uri",
  "locationName":"resourceArn"
},
"tagKeys":{
  "shape":"TagKeyList",
  "documentation":"<p>A list of metadata tag keys to remove from the requested resource.</p>",
  "location":"querystring",
  "locationName":"tagKeys"
}
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{
      "shape":"Boolean",
      "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you
allow updates, you can aggregate
Linux subscription data in more than one home Region.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",
      "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
    },
    "LinuxSubscriptionsDiscoverySettings":{
      "shape":"LinuxSubscriptionsDiscoverySettings",
      "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    }
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{

```

```

    "shape": "StringList",
    "documentation": "<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscovery": {
    "shape": "LinuxSubscriptionsDiscovery",
    "documentation": "<p>Lists
if discovery has been enabled for Linux subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscoverySettings": {
    "shape": "LinuxSubscriptionsDiscoverySettings",
    "documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
  },
  "Status": {
    "shape": "Status",
    "documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
  },
  "StatusMessage": {
    "shape": "StringMap",
    "documentation": "<p>A message which details the Linux subscriptions service settings current status.</p>"
  }
},
"ValidationException": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>The provided input is not valid. Try your request again.</p>",
  "exception": true
}
},
"documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on
running Amazon EC2 instances.</p>"
}
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
  "version": "1.0",
  "examples": {
}
}

```

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```
{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
    "ListInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceSummaries"
    },
    "ListProductSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "ProductUserSummaries"
    },
    "ListUserAssociations": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceUserSummaries"
    },
    "ListLicenseServerEndpoints": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "LicenseServerEndpoints"
    }
  }
}
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{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
```

```

{
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      "fn": "isSet",
      "argv": [
        {
          "ref": "Endpoint"
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "endpoint": {
        "url": {

```



```

    },
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        },
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ]
    }
  ],

```

```

        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
            "type": "error"
        }
    ],
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    "arg": "UseFIPS",
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    "arg": "UseFIPS"
                                ]
                            }
                        ]
                    }
                ]
            }
        ]
    }
]

```

```

"ref": "PartitionResult"
    },
    "supportsFIPS"
  ]
}
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type":
"tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [

```

```

        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
}

],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
],
},

```

```

    {
      "conditions": [],
      "error": "Invalid Configuration: Missing Region",
      "type": "error"
    }
  ]
}
{
  "ResponseMetadata": {
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [

```

```

{
  "fn": "isSet",
  "argv": [
    {
      "ref": "Endpoint"
    }
  ]
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "endpoint": {
      "url": {
        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    }
  }
]

```

```

    },
    "type": "endpoint"
  }
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "isSet",
      "argv": [
        {
          "ref": "Region"
        }
      ]
    }
  ]
},
],
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ]
      },
    ],
    "assign": "PartitionResult"
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
  },
  {
    "fn": "booleanEquals",
    "argv": [
      {
        "ref": "UseDualStack"
      },
    ],
  },

```

```

        true
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        },
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

```

```

"properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ]
},
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]
          }
        ]
      },
      true
    ]
  }
],

```

```

        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ]
},
"rules": [
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                true,
                {
                    "fn": "getAttr",
                    "argv": [
                        {
                            "ref": "PartitionResult"
                        }
                    ]
                }
            ]
        }
    ]
}
]
}
]
}

```

```

        },
        "supportsDualStack"
    ]
}
]
},
],

"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
},
{
    "conditions": [],

```

```

    "error": "Invalid Configuration: Missing Region",
    "type": "error"
  }
]
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {

```

```

"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
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  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": true,
  "UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,

```

```

    "UseDualStack": true
  }
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{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
    }
  }
}

```

```

},
"params": {
  "Region": "us-gov-east-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-gov-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": true,
  "UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
}
}

```

```

},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
  "Region": "us-isob-east-1",
  "UseFIPS": true,
  "UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
  }
},
"params": {
  "Region": "us-isob-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
}
}

```

```

    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {

```

```

    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },

```

```

{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect":
  {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"
}

```

1.218 boto3 1.37.21

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boto3

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1.219 botocore 1.37.21

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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-08-01",
    "endpointPrefix": "license-manager",
    "jsonVersion": "1.1",
    "protocol": "json",
    "serviceFullName": "AWS License Manager",
    "serviceId": "License Manager",
```

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"signatureVersion":"v4",
"targetPrefix":"AWSLicenseManager",
"uid":"license-manager-2018-08-01"
},
"operations":{
  "AcceptGrant":{
    "name":"AcceptGrant",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"AcceptGrantRequest"},
    "output":{"shape":"AcceptGrantResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Accepts the specified grant.</p>"
  },
  "CheckInLicense":{
    "name":"CheckInLicense",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CheckInLicenseRequest"},
    "output":{"shape":"CheckInLicenseResponse"},
    "errors":[
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      {"shape":"ResourceNotFoundException"},
      {"shape":"ConflictException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Checks in the specified license. Check in a license when it is no longer in use.</p>"
  },
  "CheckoutBorrowLicense":{
    "name":"CheckoutBorrowLicense",
    "http":{

```

```

    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutBorrowLicenseRequest"},
  "output":{"shape":"CheckoutBorrowLicenseResponse"},
  "errors":[
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    {"shape":"ResourceNotFoundException"},
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    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Checks out the specified license for offline use.</p>"
},
"CheckoutLicense":{
  "name":"CheckoutLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutLicenseRequest"},
  "output":{"shape":"CheckoutLicenseResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"NoEntitlementsAllowedException"},
    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Checks out the specified license.</p> <note> <p>If the account that created the license is
the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>"
},
"CreateGrant":{
  "name":"CreateGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  }
}

```

```

    },
    "input":{"shape":"CreateGrantRequest"},
    "output":{"shape":"CreateGrantResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  },
  "CreateGrantVersion":{
    "name":"CreateGrantVersion",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CreateGrantVersionRequest"},
    "output":{"shape":"CreateGrantVersionResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  },
  "CreateLicense":{
    "name":"CreateLicense",
    "http":{
      "method":"POST",
      "requestUri":"/"
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    "input":{"shape":"CreateLicenseRequest"},
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```

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    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Creates a license.</p>"
},
"CreateLicenseConfiguration":{
  "name":"CreateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseConfigurationRequest"},
  "output":{"shape":"CreateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>"
},
"CreateLicenseConversionTaskForResource":{
  "name":"CreateLicenseConversionTaskForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
  "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ValidationException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],

```

```

"documentation": "<p>Creates a new license conversion task.</p>"
},
"CreateLicenseManagerReportGenerator": {
  "name": "CreateLicenseManagerReportGenerator",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "CreateLicenseManagerReportGeneratorRequest" },
  "output": { "shape": "CreateLicenseManagerReportGeneratorResponse" },
  "errors": [
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    { "shape": "InvalidParameterValueException" },
    { "shape": "ResourceLimitExceededException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "RateLimitExceededException" },
    { "shape": "AccessDeniedException" },
    { "shape": "ResourceNotFoundException" }
  ],
  "documentation": "<p>Creates a report generator.</p>"
},
"CreateLicenseVersion": {
  "name": "CreateLicenseVersion",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "CreateLicenseVersionRequest" },
  "output": { "shape": "CreateLicenseVersionResponse" },
  "errors": [
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    { "shape": "AccessDeniedException" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "RedirectException" },
    { "shape": "ConflictException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "RateLimitExceededException" }
  ],
  "documentation": "<p>Creates a new version of the specified license.</p>"
},
"CreateToken": {
  "name": "CreateToken",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "documentation": "<p>Creates a new token.</p>"
},

```

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"input":{"shape":"CreateTokenRequest"},
"output":{"shape":"CreateTokenResponse"},
"errors":[
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  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"RedirectException"}
],
"documentation":"<p>Creates a long-lived
token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
},
"DeleteGrant":{
  "name":"DeleteGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteGrantRequest"},
  "output":{"shape":"DeleteGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Deletes the specified grant.</p>"
},
"DeleteLicense":{
  "name":"DeleteLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseRequest"},
  "output":{"shape":"DeleteLicenseResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"RedirectException"},

```

```

    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Deletes the specified license.</p>"
},
"DeleteLicenseConfiguration":{
  "name":"DeleteLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"DeleteLicenseConfigurationRequest"},
  "output":{"shape":"DeleteLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>"
},
"DeleteLicenseManagerReportGenerator":{
  "name":"DeleteLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
},

```

```

"DeleteToken":{
  "name":"DeleteToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ],
  "documentation":"<p>Deletes the specified token. Must be called in the license home Region.</p>"
},
"ExtendLicenseConsumption":{
  "name":"ExtendLicenseConsumption",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ExtendLicenseConsumptionRequest"},
  "output":{"shape":"ExtendLicenseConsumptionResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Extends the expiration date for license consumption.</p>"
},
"GetAccessToken":{
  "name":"GetAccessToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},

    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens
are valid for one hour.</p>"
},
"GetGrant":{
  "name":"GetGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets detailed information about the specified grant.</p>"
},
"GetLicense":{
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    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
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    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets detailed information about the specified license.</p>"
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",

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```

"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetLicenseConfigurationRequest"},
"output":{"shape":"GetLicenseConfigurationResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Gets detailed
information about the specified license configuration.</p>"
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets information about the specified license type conversion task.</p>"
},
"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},

```

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    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Gets information about the specified report generator.</p>"
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
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  },
  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets detailed information about the usage of the specified license.</p>"
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets the License Manager settings for the current Region.</p>"
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},

```

```

"errors":[
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  {"shape":"FilterLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists the resource associations for the specified license configuration.</p> <p>Resource
associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance
might not consume a license (depending on the license rules).</p>"
},
"ListDistributedGrants":{
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  "http":{
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  "output":{"shape":"ListDistributedGrantsResponse"},
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configuration operations that failed.</p>"
}

```

```

    },
    "ListLicenseConfigurations":{
      "name":"ListLicenseConfigurations",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"ListLicenseConfigurationsRequest"},
      "output":{"shape":"ListLicenseConfigurationsResponse"},
      "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"FilterLimitExceededException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
      ],
      "documentation":"<p>Lists the license configurations for your account.</p>"
    },
    "ListLicenseConversionTasks":{
      "name":"ListLicenseConversionTasks",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"ListLicenseConversionTasksRequest"},
      "output":{"shape":"ListLicenseConversionTasksResponse"},
      "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
      ],
      "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
    },
    "ListLicenseManagerReportGenerators":{
      "name":"ListLicenseManagerReportGenerators",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
      "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
      "errors":[
        {"shape":"ValidationException"},
        {"shape":"InvalidParameterValueException"},
        {"shape":"ResourceLimitExceededException"},

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Describes the license configurations for the specified resource.</p>"
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists all versions of the specified license.</p>"
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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"input":{"shape":"ListLicensesRequest"},
"output":{"shape":"ListLicensesResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
],
"documentation":"<p>Lists the licenses for your account.</p>"
},
"ListReceivedGrants":{"
  "name":"ListReceivedGrants",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>"
},
"ListReceivedGrantsForOrganization":{"
  "name":"ListReceivedGrantsForOrganization",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"FilterLimitExceededException"},
  {"shape":"FailedDependencyException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists resources managed using Systems Manager inventory.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists your tokens.</p>"
},
"ListUsageForLicenseConfiguration":{

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"name":"ListUsageForLicenseConfiguration",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"FilterLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists all license usage records for a license configuration, displaying license consumption
details by resource at a selected point in time. Use this action to audit the current license consumption for any
license inventory and configuration.</p>"
},
"RejectGrant":{"
"name":"RejectGrant",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"}
],
"documentation":"<p>Rejects the specified grant.</p>"
},
"TagResource":{"
"name":"TagResource",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},

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```

    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},

```

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Updates License Manager settings for the current Region.</p>"
}
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>Access to resource denied.</p>",
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":["
      "DISTRIBUTED_GRANTS_ONLY",

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    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
"exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{
      "shape":"DateTime",
      "documentation":"<p>Time that automated discovery last ran.</p>"
    }
  }
}

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    },
    "documentation": "<p>Describes automated discovery.</p>"
  },
  "Boolean": { "type": "boolean" },
  "BorrowConfiguration": {
    "type": "structure",
    "required": [
      "AllowEarlyCheckIn",
      "MaxTimeToLiveInMinutes"
    ],
    "members": {
      "AllowEarlyCheckIn": {
        "shape": "BoxBoolean",
        "documentation": "<p>Indicates whether early check-ins are allowed.</p>"
      },
      "MaxTimeToLiveInMinutes": {
        "shape": "BoxInteger",
        "documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>"
      }
    }
  },
  "documentation": "<p>Details about a borrow configuration.</p>"
},
"BoxBoolean": { "type": "boolean" },
"BoxInteger": { "type": "integer" },
"BoxLong": { "type": "long" },
"CheckInLicenseRequest": {
  "type": "structure",
  "required": [ "LicenseConsumptionToken" ],
  "members": {
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "Beneficiary": {
      "shape": "String",
      "documentation": "<p>License beneficiary.</p>"
    }
  }
},
"CheckInLicenseResponse": {
  "type": "structure",
  "members": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseArn",

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```

    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow
consumption configuration.</p>"
    },
    "Entitlements": {
      "shape": "EntitlementDataList",
      "documentation": "<p>License entitlements. Partial checkouts are not supported.</p>"
    },
    "DigitalSignatureMethod": {
      "shape": "DigitalSignatureMethod",

      "documentation": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm
PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital
Signature with RSASSA-PSS</a>.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "CheckoutMetadata": {
      "shape": "MetadataList",
      "documentation": "<p>Information about constraints.</p>"
    },
    "ClientToken": {
      "shape": "ClientToken",
      "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    }
  }
},
"CheckoutBorrowLicenseResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "EntitlementsAllowed": {

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    "shape": "EntitlementDataList",
    "documentation": "<p>Allowed license entitlements.</p>"
  },
  "NodeId": {
    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  },
  "SignedToken": {
    "shape": "SignedToken",
    "documentation": "<p>Signed token.</p>"
  },
  "IssuedAt": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout is issued.</p>"
  },
  "Expiration": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout expires.</p>"
  },
  "CheckoutMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Information about constraints.</p>"
  }
}
},
"CheckoutLicenseRequest": {
  "type": "structure",
  "required": [
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members": {
    "ProductSKU": {
      "shape": "String",
      "documentation": "<p>Product SKU.</p>"
    },
    "CheckoutType": {
      "shape": "CheckoutType",
      "documentation": "<p>Checkout type.</p>"
    },
    "KeyFingerprint": {
      "shape": "String",
      "documentation": "<p>Key fingerprint identifying the license.</p>"
    },
    "Entitlements": {

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```

    "shape": "EntitlementDataList",
    "documentation": "<p>License entitlements.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  },
  "Beneficiary": {
    "shape": "String",
    "documentation": "<p>License beneficiary.</p>"
  },
  "NodeId": {
    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  }
}
},
"CheckoutLicenseResponse": {
  "type": "structure",
  "members": {
    "CheckoutType": {
      "shape": "CheckoutType",
      "documentation": "<p>Checkout type.</p>"
    },
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "EntitlementsAllowed": {
      "shape": "EntitlementDataList",
      "documentation": "<p>Allowed license entitlements.</p>"
    },
    "SignedToken": {
      "shape": "SignedToken",
      "documentation": "<p>Signed token.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "IssuedAt": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration": {
      "shape": "ISO8601DateTime",

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```

"documentation": "<p>Date and time at which the license checkout expires.</p>"
  },
  "LicenseArn": {
    "shape": "String",
    "documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
  }
},
"CheckoutType": {
  "type": "string",
  "enum": [
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken": {
  "type": "string",
  "max": 36,
  "min": 1
},
"ClientToken": {
  "type": "string",
  "max": 2048,
  "pattern": "\\S+"
},
"ConflictException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>There was a conflict processing the request. Try your request again.</p>",
  "exception": true
},
"ConsumedLicenseSummary": {
  "type": "structure",
  "members": {
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Resource type of the resource consuming a
license.</p>"
    }
  },
  "ConsumedLicenses": {
    "shape": "BoxLong",
    "documentation": "<p>Number of licenses consumed by the resource.</p>"
  }
},
"documentation": "<p>Details about license consumption.</p>"
},

```

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"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{
      "shape":"RenewType",
      "documentation":"<p>Renewal frequency.</p>"
    },
    "ProvisionalConfiguration":{
      "shape":"ProvisionalConfiguration",
      "documentation":"<p>Details about a provisional configuration.</p>"
    },
    "BorrowConfiguration":{
      "shape":"BorrowConfiguration",
      "documentation":"<p>Details about a borrow configuration.</p>"
    }
  },
  "documentation":"<p>Details about a consumption configuration.</p>"
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Principals":{
      "shape":"PrincipalArnList",

```

"documentation":<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p><p>An Amazon Web Services account, which includes only the account specified.</p><p>An organizational unit (OU), which includes all accounts in the OU.</p><p>An organization, which will include all accounts across your organization.</p>"

```
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":<p>Home Region of the grant.</p>
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":<p>Allowed operations for the grant.</p>
    }
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":<p>Grant ARN.</p>
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":<p>Grant status.</p>
    },
    "Version":{
      "shape":"String",
      "documentation":<p>Grant version.</p>
    }
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>
    },
    "GrantArn":{
      "shape":"Arn",
```

```

    "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
  },
  "GrantName": {
    "shape": "String",
    "documentation": "<p>Grant name.</p>"
  },
  "AllowedOperations": {
    "shape": "AllowedOperationList",
    "documentation": "<p>Allowed operations for the grant.</p>"
  },
  "Status": {
    "shape": "GrantStatus",
    "documentation": "<p>Grant status.</p>"
  },
  "StatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>Grant status reason.</p>"
  },
  "SourceVersion": {
    "shape": "String",
    "documentation": "<p>Current version of the grant.</p>"
  },
  "Options": {
    "shape": "Options",
    "documentation": "<p>The options specified for the grant.</p>"
  }
},
"CreateGrantVersionResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Grant ARN.</p>"
    },
    "Status": {
      "shape": "GrantStatus",
      "documentation": "<p>Grant status.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>New version of the grant.</p>"
    }
  }
},
"CreateLicenseConfigurationRequest": {
  "type": "structure",

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"required":[
  "Name",
  "LicenseCountingType"
],
"members":{
  "Name":{
    "shape":"String",
    "documentation":"<p>Name of the license configuration.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>Description of the license configuration.</p>"
  },
  "LicenseCountingType":{
    "shape":"LicenseCountingType",
    "documentation":"<p>Dimension used to track the license inventory.</p>"
  },
  "LicenseCount":{
    "shape":"BoxLong",
    "documentation":"<p>Number of licenses managed by the license configuration.</p>"
  },
  "LicenseCountHardLimit":{
    "shape":"BoxBoolean",
    "documentation":"<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
  },
  "LicenseRules":{
    "shape":"StringList",
    "documentation":"<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code>
dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li>
<p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code>
dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> |
<code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are
<code>True</code> and <code>False</code>.</p>"
  },
  "Tags":{
    "shape":"TagList",
    "documentation":"<p>Tags to add to the

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license configuration.</p>"
  },
  "DisassociateWhenNotFound":{
    "shape":"BoxBoolean",
    "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
  },
  "ProductInformationList":{
    "shape":"ProductInformationList",
    "documentation":"<p>Product information.</p>"
  }
}
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting from. For the structure of
the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting to. For the structure of the
destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    }
  }
}

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    }
  },
  "CreateLicenseConversionTaskForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":"<p>The ID of the created license type conversion task.</p>"
      }
    }
  },
  "CreateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "Type":{
        "shape":"ReportTypeList",
        "documentation":"<p>Type of reports to generate. The following report types an be generated:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption
for a license configuration.</p> </li> </ul>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>Defines the type of license configuration the report generator tracks.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
      },
      "ClientToken":{
        "shape":"ClientRequestToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      },
      "Description":{
        "shape":"String",

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    "documentation": "<p>Description of the report generator.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags to add to the report generator.</p>"
  }
}
},
"CreateLicenseManagerReportGeneratorResponse": {
  "type": "structure",
  "members": {
    "LicenseManagerReportGeneratorArn": {
      "shape": "String",
      "documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
    }
  }
},
"CreateLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members": {
    "LicenseName": {
      "shape": "String",
      "documentation": "<p>License name.</p>"
    },
    "ProductName": {
      "shape": "String",
      "documentation": "<p>Product name.</p>"
    },
    "ProductSKU": {
      "shape": "String",
      "documentation": "<p>Product SKU.</p>"
    },
    "Issuer": {
      "shape": "Issuer",
      "documentation": "<p>License issuer.</p>"
    }
  }
},

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"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region for the license.</p>"
},
"Validity":{
  "shape":"DatetimeRange",
  "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"Entitlements":{
  "shape":"EntitlementList",
  "documentation":"<p>License entitlements.</p>"
},
"Beneficiary":{
  "shape":"String",
  "documentation":"<p>License beneficiary.</p>"
},
"ConsumptionConfiguration":{
  "shape":"ConsumptionConfiguration",
  "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>"
},
"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Information about the license.</p>"
},
"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
}
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
}

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    }
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],

"members":{
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "LicenseName":{
    "shape":"String",
    "documentation":"<p>License name.</p>"
  },
  "ProductName":{
    "shape":"String",
    "documentation":"<p>Product name.</p>"
  },
  "Issuer":{
    "shape":"Issuer",
    "documentation":"<p>License issuer.</p>"
  },
  "HomeRegion":{
    "shape":"String",
    "documentation":"<p>Home Region of the license.</p>"
  },
  "Validity":{
    "shape":"DatetimeRange",
    "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  },
  "LicenseMetadata":{
    "shape":"MetadataList",
    "documentation":"<p>Information about the license.</p>"
  },
  "Entitlements":{

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    "shape": "EntitlementList",
    "documentation": "<p>License
entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
  },
  "Status": {
    "shape": "LicenseStatus",
    "documentation": "<p>License status.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  },
  "SourceVersion": {
    "shape": "String",
    "documentation": "<p>Current version of the license.</p>"
  }
}
},
"CreateLicenseVersionResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>License
ARN.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>New version of the license.</p>"
    },
    "Status": {
      "shape": "LicenseStatus",
      "documentation": "<p>License status.</p>"
    }
  }
}
},
"CreateTokenRequest": {
  "type": "structure",
  "required": [
    "LicenseArn",
    "ClientToken"
  ]
}

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    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of
the JWT token.</p>"
      },
      "RoleArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License
Manager does not check whether the roles are in use.</p>"
      },
      "ExpirationInDays":{
        "shape":"Integer",
        "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365
days.</p>"
      },
      "TokenProperties":{
        "shape":"MaxSize3StringList",
        "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
      },
      "ClientToken":{
        "shape":"ClientToken",
        "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
      }
    }
  },
  "CreateTokenResponse":{
    "type":"structure",
    "members":{
      "TokenId":{
        "shape":"String",
        "documentation":"<p>Token ID.</p>"
      },
      "TokenType":{
        "shape":"TokenType",
        "documentation":"<p>Token type.</p>"
      },
      "Token":{
        "shape":"TokenString",
        "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
      }
    }
  },
  "DateTime":{"type":"timestamp"},
  "DatetimeRange":{
    "type":"structure",

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"required":["Begin"],
"members":{
  "Begin":{
    "shape":"ISO8601DateTime",
    "documentation":"<p>Start of the time range.</p>"
  },
  "End":{
    "shape":"ISO8601DateTime",
    "documentation":"<p>End of the time range.</p>"
  }
},
"documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>The Status reason for the delete request.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",

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    }
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    }
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement name.</p>"
    },
    "Value":{
      "shape":"String",

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    "documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
  },
  "MaxCount": {
    "shape": "Long",
    "documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
  },
  "Overage": {
    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether overages are allowed.</p>"
  },
  "Unit": {
    "shape": "EntitlementUnit",
    "documentation": "<p>Entitlement unit.</p>"
  },
  "AllowCheckIn": {
    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether check-ins are allowed.</p>"
  }
},
"documentation": "<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData": {
  "type": "structure",
  "required": [
    "Name",
    "Unit"
  ],
  "members": {
    "Name": {
      "shape": "String",
      "documentation": "<p>Entitlement data name.</p>"
    },
    "Value": {
      "shape": "String",
      "documentation": "<p>Entitlement data value.</p>"
    },
    "Unit": {
      "shape": "EntitlementDataUnit",
      "documentation": "<p>Entitlement data unit.</p>"
    }
  },
  "documentation": "<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList": {
  "type": "list",
  "member": { "shape": "EntitlementData" }
},
"EntitlementDataUnit": {

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"type":"string",
"enum":[
  "Count",
  "None",
  "Seconds",
  "Microseconds",
  "Milliseconds",
  "Bytes",
  "Kilobytes",
  "Megabytes",
  "Gigabytes",
  "Terabytes",
  "Bits",
  "Kilobits",
  "Megabits",
  "Gigabits",
  "Terabits",
  "Percent",
  "Bytes/Second",
  "Kilobytes/Second",
  "Megabytes/Second",
  "Gigabytes/Second",
  "Terabytes/Second",
  "Bits/Second",
  "Kilobits/Second",
  "Megabits/Second",
  "Gigabits/Second",
  "Terabits/Second",
  "Count/Second"
]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The entitlement is not allowed.</p>",
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",

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"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
"Megabytes/Second",
"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement usage name.</p>"
    },
    "ConsumedValue":{
      "shape":"String",
      "documentation":"<p>Resource usage consumed.</p>"
    },
    "MaxCount":{
      "shape":"String",
      "documentation":"<p>Maximum entitlement usage count.</p>"
    },
    "Unit":{

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    "shape":"EntitlementDataUnit",
    "documentation":"<p>Entitlement usage unit.</p>"
  }
},
"documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "DryRun":{
      "shape":"Boolean",
      "documentation":"<p>Checks whether you have the required permissions for the action, without actually
making the request. Provides
an error response if you do not have the required permissions.</p>"
    }
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license consumption expires.</p>"
    }
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true
},

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"Filter":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{

      "shape":"FilterValues",
      "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the
filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe
operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The request uses too many filters or too many filter values.</p>",
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    },
  },

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    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Token properties to validate against those present in the JWT token.</p>"
    }
  },
  "GetAccessTokenResponse":{
    "type":"structure",
    "members":{
      "AccessToken":{
        "shape":"TokenString",
        "documentation":"<p>Temporary access token.</p>"
      }
    }
  },
  "GetGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "GetGrantResponse":{
    "type":"structure",
    "members":{
      "Grant":{
        "shape":"Grant",
        "documentation":"<p>Grant details.</p>"
      }
    }
  },
  "GetLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },

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"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension for which the licenses are counted.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>License rules.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of available licenses.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses assigned to resources.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>License configuration status.</p>"
    },
    "OwnerAccountId":{
      "shape":"String",
      "documentation":"<p>Account ID of the owner of the license configuration.</p>"
    },
    "ConsumedLicenseSummaryList":{

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    "shape": "ConsumedLicenseSummaryList",
    "documentation": "<p>Summaries of the licenses consumed by resources.</p>"
  },
  "ManagedResourceSummaryList": {
    "shape": "ManagedResourceSummaryList",
    "documentation": "<p>Summaries of the managed resources.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags for the license configuration.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  },
  "AutomatedDiscoveryInformation": {
    "shape": "AutomatedDiscoveryInformation",
    "documentation": "<p>Automated discovery information.</p>"
  },
  "DisassociateWhenNotFound": {
    "shape": "BoxBoolean",
    "documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
  }
}
},
"GetLicenseConversionTaskRequest": {
  "type": "structure",
  "required": ["LicenseConversionTaskId"],
  "members": {
    "LicenseConversionTaskId": {
      "shape": "LicenseConversionTaskId",
      "documentation": "<p>ID of the license type conversion task to retrieve information on.</p>"
    }
  }
},
"GetLicenseConversionTaskResponse": {
  "type": "structure",
  "members": {
    "LicenseConversionTaskId": {
      "shape": "LicenseConversionTaskId",
      "documentation": "<p>ID of the license type conversion task.</p>"
    },
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
    }
  },
  "SourceLicenseContext": {

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    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type converted from.</p>"
  },
  "DestinationLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information about the license type converted to.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for the conversion task.</p>"
  },
  "Status":{
    "shape":"LicenseConversionTaskStatus",
    "documentation":"<p>Status of the license type conversion task.</p>"
  },
  "StartTime":{
    "shape":"DateTime",
    "documentation":"<p>Time at which the license type conversion task was started .</p>"
  },
  "LicenseConversionTime":{
    "shape":"DateTime",
    "documentation":"<p>Amount of time to complete the license type conversion.</p>"
  },
  "EndTime":{
    "shape":"DateTime",
    "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
  }
}
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    }
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{
      "shape":"ReportGenerator",
      "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
    }
  }
}

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},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{
      "shape":"License",
      "documentation":"<p>License details.</p>"
    }
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{
      "shape":"LicenseUsage",
      "documentation":"<p>License usage details.</p>"
    }
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{

```

```

},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",

      "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
    },
    "SnsTopicArn":{
      "shape":"String",
      "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
    },
    "OrganizationConfiguration":{
      "shape":"OrganizationConfiguration",
      "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
    },
    "EnableCrossAccountsDiscovery":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
    },
    "LicenseManagerResourceShareArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
    }
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
  },

```

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"GrantName":{
  "shape":"String",
  "documentation":"<p>Grant name.</p>"
},
"ParentArn":{
  "shape":"Arn",
  "documentation":"<p>Parent ARN.</p>"
},
"LicenseArn":{
  "shape":"Arn",
  "documentation":"<p>License ARN.</p>"
},
"GranteePrincipalArn":{
  "shape":"Arn",
  "documentation":"<p>The grantee principal ARN.</p>"
},
"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region of the grant.</p>"
},
"GrantStatus":{
  "shape":"GrantStatus",
  "documentation":"<p>Grant status.</p>"
},
"StatusReason":{
  "shape":"StatusReasonMessage",
  "documentation":"<p>Grant status reason.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>Grant version.</p>"
},
"GrantedOperations":{
  "shape":"AllowedOperationList",
  "documentation":"<p>Granted operations.</p>"
},
"Options":{
  "shape":"Options",
  "documentation":"<p>The options specified for the grant.</p>"
}
},
"documentation":"<p>Describes a grant.</p>"
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{

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"type":"string",
"enum":[
  "PENDING_WORKFLOW",
  "PENDING_ACCEPT",
  "REJECTED",
  "ACTIVE",
  "FAILED_WORKFLOW",
  "DELETED",
  "PENDING_DELETE",
  "DISABLED",

"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>Granted license issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the granted license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>Granted license status.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",

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    "documentation": "<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
  },
  "Beneficiary": {
    "shape": "String",
    "documentation": "<p>Granted license beneficiary.</p>"
  },
  "Entitlements": {
    "shape": "EntitlementList",
    "documentation": "<p>License entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license.</p>"
  },
  "LicenseMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Granted license metadata.</p>"
  },
  "CreateTime": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Creation time of the granted license.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>Version of the granted license.</p>"
  },
  "ReceivedMetadata": {
    "shape": "ReceivedMetadata",
    "documentation": "<p>Granted license received metadata.</p>"
  }
},
"documentation": "<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList": {
  "type": "list",
  "member": { "shape": "GrantedLicense" }
},
"ISO8601DateTime": {
  "type": "string",
  "max": 50,
  "pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
},
"Integer": { "type": "integer" },
"InvalidParameterValueException": {
  "type": "structure",
  "members": {

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    "Message":{"shape":"Message"}
  },
  "documentation":"<p>One or more parameter values are not valid.</p>",
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}

  },
  "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the filter.</p>"
    },
    "Condition":{
      "shape":"InventoryFilterCondition",
      "documentation":"<p>Condition of the filter.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>An inventory filter.</p>"
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{

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    "type": "list",
    "member": { "shape": "InventoryFilter" }
  },
  "Issuer": {
    "type": "structure",
    "required": [ "Name" ],
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>Issuer name.</p>"
      },
      "SignKey": {
        "shape": "String",
        "documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
      }
    },
    "documentation": "<p>Details about the issuer of a license.</p>"
  },
  "IssuerDetails": {
    "type": "structure",
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>Issuer name.</p>"
      },
      "SignKey": {
        "shape": "String",
        "documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
      },
      "KeyFingerprint": {
        "shape": "String",
        "documentation": "<p>Issuer key fingerprint.</p>"
      }
    },
    "documentation": "<p>Details associated with the issuer of a license.</p>"
  },
  "License": {
    "type": "structure",
    "members": {
      "LicenseArn": {
        "shape": "Arn",
        "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "LicenseName": {
        "shape": "String",
        "documentation": "<p>License name.</p>"
      }
    }
  }
}

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},
"ProductName":{
  "shape":"String",
  "documentation":"<p>Product name.</p>"
},
"ProductSKU":{
  "shape":"String",
  "documentation":"<p>Product SKU.</p>"
},
"Issuer":{
  "shape":"IssuerDetails",
  "documentation":"<p>License issuer.</p>"
},
"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region of the license.</p>"
},
"Status":{
  "shape":"LicenseStatus",
  "documentation":"<p>License status.</p>"
},
"Validity":{
  "shape":"DatetimeRange",
  "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"Beneficiary":{
  "shape":"String",
  "documentation":"<p>License beneficiary.</p>"
},
"Entitlements":{
  "shape":"EntitlementList",
  "documentation":"<p>License entitlements.</p>"
},
"ConsumptionConfiguration":{
  "shape":"ConsumptionConfiguration",
  "documentation":"<p>Configuration for consumption of the license.</p>"
},
"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>License metadata.</p>"
},
"CreateTime":{
  "shape":"ISO8601DateTime",
  "documentation":"<p>License creation time.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>License version.</p>"
}

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    }
  },
  "documentation": "<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID of the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension to use to track the license inventory.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>License rules.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Number of available licenses as a hard limit.</p>"
    },
    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed. </p>"
    },
    "Status":{

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    "shape": "String",
    "documentation": "<p>Status of the license configuration.</p>"
  },
  "OwnerAccountId": {
    "shape": "String",
    "documentation": "<p>Account ID of the license
configuration's owner.</p>"
  },
  "ConsumedLicenseSummaryList": {
    "shape": "ConsumedLicenseSummaryList",
    "documentation": "<p>Summaries for licenses consumed by various resources.</p>"
  },
  "ManagedResourceSummaryList": {
    "shape": "ManagedResourceSummaryList",
    "documentation": "<p>Summaries for managed resources.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  },
  "AutomatedDiscoveryInformation": {
    "shape": "AutomatedDiscoveryInformation",
    "documentation": "<p>Automated discovery information.</p>"
  }
},
"documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with
a host), and the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of server resource.</p>"
    },
    "ResourceOwnerId": {
      "shape": "String",
      "documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
    },
    "AssociationTime": {

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    "shape": "DateTime",
    "documentation": "<p>Time when the license configuration was associated with the resource.</p>"
  },
  "AmiAssociationScope": {
    "shape": "String",
    "documentation": "<p>Scope of
AMI associations. The possible value is <code>cross-account</code>.</p>"
  }
},
"documentation": "<p>Describes an association with a license configuration.</p>"
},
"LicenseConfigurationAssociations": {
  "type": "list",
  "member": { "shape": "LicenseConfigurationAssociation" }
},
"LicenseConfigurationStatus": {
  "type": "string",
  "enum": [
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of resource.</p>"
    },
    "ResourceStatus": {
      "shape": "String",
      "documentation": "<p>Status of the resource.</p>"
    },
    "ResourceOwnerId": {
      "shape": "String",
      "documentation": "<p>ID of
the account that owns the resource.</p>"
    }
  },
  "AssociationTime": {
    "shape": "DateTime",
    "documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
  },
  "ConsumedLicenses": {
    "shape": "BoxLong",

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    "documentation": "<p>Number of licenses consumed by the resource.</p>"
  },
  "documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList": {
  "type": "list",
  "member": { "shape": "LicenseConfigurationUsage" }
},
"LicenseConfigurations": {
  "type": "list",
  "member": { "shape": "LicenseConfiguration" }
},
"LicenseConversionContext": {
  "type": "structure",
  "members": {
    "UsageOperation": {
      "shape": "UsageOperation",
      "documentation": "<p>The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  }
},
"documentation": "<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTask": {
  "type": "structure",
  "members": {
    "LicenseConversionTaskId": {
      "shape": "LicenseConversionTaskId",
      "documentation": "<p>The ID of the license type conversion task.</p>"
    },
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type
conversion task.</p>"
    },
    "SourceLicenseContext": {
      "shape": "LicenseConversionContext",
      "documentation": "<p>Information about the license type this conversion task converted from.</p>"
    },
    "DestinationLicenseContext": {
      "shape": "LicenseConversionContext",
      "documentation": "<p>Information about the license type this conversion task converted to.</p>"
    }
  }
},

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"Status":{
  "shape":"LicenseConversionTaskStatus",
  "documentation":"<p>The status of the conversion task.</p>"
},
"StatusMessage":{
  "shape":"String",
  "documentation":"<p>The status message for the conversion task.</p>"
},
"StartTime":{
  "shape":"DateTime",
  "documentation":"<p>The time the conversion task was started at.</p>"
},
"LicenseConversionTime":{
  "shape":"DateTime",
  "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
},
"EndTime":{
  "shape":"DateTime",
  "documentation":"<p>The time the conversion task was completed.</p>"
}
},
"documentation":"<p>Information about a
license type conversion task.</p>"
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
}

```

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]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
  },
}

"ResourceType":{
  "shape":"ResourceType",
  "documentation":"<p>Resource type.</p>"
},
"ErrorMessage":{
  "shape":"String",
  "documentation":"<p>Error message.</p>"
},
"FailureTime":{
  "shape":"DateTime",
  "documentation":"<p>Failure time.</p>"
},
"OperationName":{
  "shape":"String",
  "documentation":"<p>Name of the operation.</p>"
},
"ResourceOwnerId":{
  "shape":"String",
  "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
},
"OperationRequestedBy":{
  "shape":"String",
  "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
},
"MetadataList":{
  "shape":"MetadataList",
  "documentation":"<p>Reserved.</p>"
}

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    }
  },
  "documentation": "<p>Describes the failure of a license operation.</p>"
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  }
},
"documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{
      "shape":"EntitlementUsageList",
      "documentation":"<p>License entitlement usages.</p>"
    }
  }
},
"documentation":"<p>Describes the entitlement usage associated with a license.</p>"

```

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},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum
number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{
      "shape":"LicenseConfigurationAssociations",
      "documentation":"<p>Information about the associations for the license configuration.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
    }
  },

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"Filters":{
  "shape":"FilterList",
  "documentation":"<p>Filters to scope the results.
The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p>
<code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>"
},
"NextToken":{
  "shape":"String",
  "documentation":"<p>Token for the next set of results.</p>"
},
"MaxResults":{
  "shape":"MaxSize100",
  "documentation":"<p>Maximum number of results to return in a single call.</p>"
}
},
"ListDistributedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Distributed grant details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},

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"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
  "members":{
    "LicenseOperationFailureList":{
      "shape":"LicenseOperationFailureList",
      "documentation":"<p>License configuration operations that failed.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{
      "shape":"StringList",
      "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
    }
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{
      "shape":"LicenseConfigurations",
      "documentation":"<p>Information about the license configurations.</p>"
    }
  }
}

```

```

    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token
for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p>Filters to scope the results. Valid filters are <code>ResourceArns</code> and
<code>Status</code>. </p>"
    }
  }
},
"ListLicenseConversionTasksResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTasks":{
      "shape":"LicenseConversionTasks",
      "documentation":"<p>Information about the license configuration tasks for your account.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters
to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>"
    }
  }
},

```

```

    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsResponse":{
  "type":"structure",
  "members":{
    "ReportGenerators":{
      "shape":"ReportGeneratorList",
      "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configurations associated with a resource.</p>"
    }
  }
}

```

```

    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",

  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names
(ARNs) of the licenses.</p>"
    },
    "Filters":{

```

```

    "shape": "FilterList",
    "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListLicensesResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "shape": "LicenseList",
      "documentation": "<p>License details.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code> </p> </li> </ul>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "MaxResults": {
      "shape": "MaxSize100",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
}

```

```

    }
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Lists the grants the organization has received.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li><p>
<code>ProductSKU</code> </p> </li> <li><p> <code>LicenseIssuerName</code> </p> </li> <li><p>
<code>LicenseArn</code> </p> </li> <li><p> <code>GrantStatus</code> </p> </li> <li><p>
<code>GranterAccountId</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Received grant details.</p>"
    },
  },

```

```

    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },
  "ListReceivedLicensesForOrganizationRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of
results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListReceivedLicensesForOrganizationResponse":{
    "type":"structure",
    "members":{
      "Licenses":{
        "shape":"GrantedLicenseList",
        "documentation":"<p>Lists the licenses the organization has received.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListReceivedLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names (ARNs) of the licenses.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>

```

```

<code>ProductSKU</code>
</p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p>
<code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  },
  "MaxResults":{
    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"GrantedLicenseList",
      "documentation":"<p>Received license details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"InventoryFilterList",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns
the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>

```

| `windows-server-datacenter`.

- `platform` - The platform of the resource. Logical operators are `EQUALS` | `BEGINS_WITH`.
- `resource_id` - The ID of the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `tag:<key>` - The key/value combination of a tag assigned to the resource. Logical operators are `EQUALS` (single account) or `EQUALS` | `NOT_EQUALS` (cross account).

```

    }
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{
      "shape":"ResourceInventoryList",
      "documentation":"<p>Information about the resources.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Information about the tags.</p>"
    }
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{
      "shape":"StringList",
      "documentation":"<p>Token IDs.</p>"
    }
  },

```

```

"Filters":{
  "shape":"FilterList",
  "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
},
"NextToken":{
  "shape":"String",
  "documentation":"<p>Token for the next set of
results.</p>"
},
"MaxResults":{
  "shape":"MaxSize100",
  "documentation":"<p>Maximum number of results to return in a single call.</p>"
}
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{
      "shape":"TokenList",
      "documentation":"<p>Received token details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"NextToken":{
  "shape":"String",
  "documentation":"<p>Token for the next set of results.</p>"
},
"Filters":{
  "shape":"Filters",

```

"documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> "

```

    }
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{
      "shape":"LicenseConfigurationUsageList",
      "documentation":"<p>Information about the license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  }
},
"documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
}

```

```

},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>The key name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>The value.</p>"
    }
  },
  "documentation":"<p>Describes key/value pairs.</p>"
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
  "exception":true
},
"Options":{
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{
      "shape":"ActivationOverrideBehavior",
      "documentation":"<p>An activation option for your grant that determines the behavior of activating a grant.
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace.
Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code>
parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an
<code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate

```

a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.</p> </dd> </dl>"

```
  }  
},
```

"documentation": "<p>The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the <i>License Manager User Guide</i>.</p>"

```
},
```

```
"OrganizationConfiguration": {  
  "type": "structure",  
  "required": ["EnableIntegration"],  
  "members": {  
    "EnableIntegration": {  
      "shape": "Boolean",  
      "documentation": "<p>Enables Organizations integration.</p>"
```

```
    }  
  },
```

```
},
```

"documentation": "<p>Configuration information for Organizations.</p>"

```
},
```

```
"PrincipalArnList": {  
  "type": "list",  
  "member": {"shape": "Arn"},  
  "max": 1,  
  "min": 1
```

```
},
```

```
"ProductInformation": {  
  "type": "structure",  
  "required": [  
    "ResourceType",  
    "ProductInformationFilterList"
```

```
  ],
```

```
  "members": {
```

```
    "ResourceType": {  
      "shape": "String",
```

"documentation": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>"

```
    },
```

```
    "ProductInformationFilterList": {  
      "shape": "ProductInformationFilterList",
```

"documentation": "<p>A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for <code>ProductInformationFilterName</code>

are listed here along with descriptions and valid options for `ProductInformationFilterComparator`.

The following filters and are supported when the resource type is `SSM_MANAGED`:

- `Application Name` - The name of the application. Logical operator is `EQUALS`.
- `Application Publisher` - The publisher of the application. Logical operator is `EQUALS`.
- `Application Version` - The version of the application. Logical operator is `EQUALS`.
- `Platform Name` - The name of the platform. Logical operator is `EQUALS`.
- `Platform Type` - The platform type. Logical operator is `EQUALS`.
- `Tag:key` - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.
- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

    }
  },
  "documentation": "<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{
      "shape":"String",
      "documentation":"<p>Filter name.</p>"
    },
    "ProductInformationFilterValue":{
      "shape":"StringList",
      "documentation":"<p>Filter value.</p>"
    },
    "ProductInformationFilterComparator":{
      "shape":"String",
      "documentation":"<p>Logical operator.</p>"
    }
  },
},

```

```

"documentation": "<p>Describes product information filters.</p>"
},
"ProductInformationFilterList": {
  "type": "list",
  "member": { "shape": "ProductInformationFilter" }
},
"ProductInformationList": {
  "type": "list",
  "member": { "shape": "ProductInformation" }
},
"ProvisionalConfiguration": {
  "type": "structure",
  "required": ["MaxTimeToLiveInMinutes"],
  "members": {
    "MaxTimeToLiveInMinutes": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>"
    }
  },
  "documentation": "<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
  "exception": true
},
"ReceivedMetadata": {
  "type": "structure",
  "members": {
    "ReceivedStatus": {
      "shape": "ReceivedStatus",
      "documentation": "<p>Received status.</p>"
    },
    "ReceivedStatusReason": {
      "shape": "StatusReasonMessage",
      "documentation": "<p>Received status reason.</p>"
    },
    "AllowedOperations": {
      "shape": "AllowedOperationList",
      "documentation": "<p>Allowed operations.</p>"
    }
  },
  "documentation": "<p>Metadata associated with received licenses and grants.</p>"
},

```

```

"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>This is not the correct Region for the resource. Try again.</p>",
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    }
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
}

```

```

},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration that this generator reports
on.</p>"
    }
  },
  "documentation":"<p>Details of the license configuration that this generator reports on.</p>"
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{
      "shape":"Integer",
      "documentation":"<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
    }
  },
  "period":{
    "shape":"ReportFrequencyType",
    "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
  }
},
"documentation":"<p>Details about how frequently reports are generated.</p>"
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{

```

```

    "shape": "String",
    "documentation": "<p>Name of the report generator.</p>"
  },
  "ReportType": {
    "shape": "ReportTypeList",
    "documentation": "<p>Type of reports that are generated.</p>"
  },
  "ReportContext": {
    "shape": "ReportContext",
    "documentation": "<p>License configuration type for this generator.</p>"
  },
  "ReportFrequency": {
    "shape": "ReportFrequency",
    "documentation": "<p>Details about how frequently reports are generated.</p>"
  },
  "LicenseManagerReportGeneratorArn": {
    "shape": "String",
    "documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
  },
  "LastRunStatus": {
    "shape": "String",
    "documentation": "<p>Status of the
last report generation attempt.</p>"
  },
  "LastRunFailureReason": {
    "shape": "String",
    "documentation": "<p>Failure message for the last report generation attempt.</p>"
  },
  "LastReportGenerationTime": {
    "shape": "String",
    "documentation": "<p>Time the last report was generated at.</p>"
  },
  "ReportCreatorAccount": {
    "shape": "String",
    "documentation": "<p>The Amazon Web Services account ID used to create the report generator.</p>"
  },
  "Description": {
    "shape": "String",
    "documentation": "<p>Description of the report generator.</p>"
  },
  "S3Location": {
    "shape": "S3Location",
    "documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
  },
  "CreateTime": {
    "shape": "String",
    "documentation": "<p>Time the report was created.</p>"
  },

```

```

"Tags":{

"shape":"TagList",
  "documentation":"<p>Tags associated with the report generator.</p>"
  }
},
"documentation":"<p>Describe the details of a report generator.</p>"
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>ID of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "Platform":{
      "shape":"String",
      "documentation":"<p>Platform of the resource.</p>"
    },
    "PlatformVersion":{

```

```

    "shape":"String",
    "documentation":"<p>Platform version of the resource in the inventory.</p>"
  },
  "ResourceOwningAccountId":{
    "shape":"String",
    "documentation":"<p>ID of the account that owns the resource.</p>"
  }
},
"documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Your resource limits have been exceeded.</p>",
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{

```

```

    "shape":"String",
    "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
  }
},
"documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The server experienced an internal error. Try again.</p>",
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":"<p>Tag key.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Tag value.</p>"
    }
  },
  "documentation":"<p>Details about a tag for a license configuration.</p>"
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{

```

```

    "type": "list",
    "member": { "shape": "Tag" }
  },
  "TagResourceRequest": {
    "type": "structure",
    "required": [
      "ResourceArn",
      "Tags"
    ],
    "members": {
      "ResourceArn": {
        "shape": "String",
        "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "Tags": {
        "shape": "TagList",
        "documentation": "<p>One or more tags.</p>"
      }
    }
  },
  "TagResourceResponse": {
    "type": "structure",
    "members": {
    }
  },
  "TokenData": {
    "type": "structure",
    "members": {
      "TokenId": {
        "shape": "String",
        "documentation": "<p>Token ID.</p>"
      },
      "TokenType": {
        "shape": "String",
        "documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
      },
      "LicenseArn": {
        "shape": "String",
        "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "ExpirationTime": {
        "shape": "ISO8601DateTime",
        "documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
      },
      "TokenProperties": {
        "shape": "MaxSize3StringList",
        "documentation": "<p>Data specified by the caller.</p>"
      }
    }
  }
}

```

```

    },
    "RoleArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
    }
  },
  "documentation":"<p>Describes a token.</p>"
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The digital signature method is unsupported.
Try your request again.</p>",
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "TagKeys":{
      "shape":"TagKeyList",

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```

    "documentation": "<p>Keys identifying the tags to remove.</p>"
  }
}
},
"UntagResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"UpdateLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "LicenseConfigurationStatus": {
      "shape": "LicenseConfigurationStatus",
      "documentation": "<p>New
status of the license configuration.</p>"
    },
    "LicenseRules": {
      "shape": "StringList",
      "documentation": "<p>New license rule. The only rule that you can add after you create a license configuration
is licenseAffinityToHost.</p>"
    },
    "LicenseCount": {
      "shape": "BoxLong",
      "documentation": "<p>New number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit": {
      "shape": "BoxBoolean",
      "documentation": "<p>New hard limit of the number of available licenses.</p>"
    },
    "Name": {
      "shape": "String",
      "documentation": "<p>New name of the license configuration.</p>"
    },
    "Description": {
      "shape": "String",
      "documentation": "<p>New description of the license configuration.</p>"
    },
    "ProductInformationList": {
      "shape": "ProductInformationList",
      "documentation": "<p>New
product information.</p>"
    }
  }
},

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    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    }
  },
  "UpdateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "LicenseManagerReportGeneratorArn",
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
      },
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "Type":{
        "shape":"ReportTypeList",
        "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> </li> </ul>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>The report context.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Frequency by which reports are generated.</p>"
      },
      "ClientToken":{
        "shape":"ClientRequestToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the

```

```

request.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>Description of the report generator.</p>"

  }
  },
  "UpdateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
      },
      "AddLicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>ARNs of the license configurations to add.</p>"
      },
      "RemoveLicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>ARNs of the license configurations to remove.</p>"
      }
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager

```

```

alerts.</p>"
  },
  "OrganizationConfiguration":{
    "shape":"OrganizationConfiguration",
    "documentation":"<p>Enables integration with Organizations for cross-account discovery.</p>"
  },
  "EnableCrossAccountsDiscovery":{
    "shape":"BoxBoolean",
    "documentation":"<p>Activates cross-account discovery.</p>"
  }
}
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
  }
},
"UsageOperation":{
  "type":"string",
  "max":50
},
"ValidationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}
},
"documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
  ],

```

```

{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack
enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {

```

```

    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,

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```

    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",

    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",

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```

        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation":
    "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {

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```

    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

```

```

"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
  }
},
"params": {
  "Region": "ap-northeast-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-south-1",
    "UseFIPS": false,

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```

    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-1",

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation":
  "For region ca-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {

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        "url": "https://license-manager.ca-central-1.amazonaws.com"
    }
},
"params": {
    "Region": "ca-central-1",
    "UseFIPS": false,
    "UseDualStack": false
}
},
{
    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "eu-central-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "eu-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
}

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    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params":
    {
      "Region": "eu-west-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-3",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    },
    {
      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      }
    }
  }

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},
"params": {
  "Region": "me-south-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.sa-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "sa-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{

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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-east-2.amazonaws.com"
  }
},

"params": {
  "Region": "us-east-2",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-east-2.amazonaws.com"
  }
},
"params": {
  "Region": "us-east-2",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-west-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-west-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-west-1.amazonaws.com"
  }
},
"params": {

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    "Region": "us-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
  "expect":
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  "endpoint": {
    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
  }
},
  "params": {
    "Region": "us-west-2",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {

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    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },

  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-northwest-1",
    "UseFIPS": false,
    "UseDualStack":
false
  }
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{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
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    "UseFIPS": true,

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    "UseDualStack": true
  }
},
{
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  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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    "UseFIPS": true,
    "UseDualStack": false
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and DualStack enabled",
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    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
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  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
    }
  }
}

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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
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},
{
  "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
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{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
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    "UseFIPS": true,
    "UseDualStack": false
  }
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    "UseFIPS": true,
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{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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    "endpoint": {
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    }
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  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",

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    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
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    }
  },
  "params":
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  "Region": "us-isob-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {

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    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
},

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    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}

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AWS Signature Version 4 Test Suite

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{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager User Subscriptions",
    "serviceId": "License Manager User Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-user-subscriptions",
    "uid": "license-manager-user-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "AssociateUser": {
      "name": "AssociateUser",

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"http":{
  "method":"POST",
  "requestUri":"/user/AssociateUser",
  "responseCode":200
},
"input":{"shape":"AssociateUserRequest"},
"output":{"shape":"AssociateUserResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
"idempotent":true
},
"CreateLicenseServerEndpoint":{
  "name":"CreateLicenseServerEndpoint",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/CreateLicenseServerEndpoint",
    "responseCode":200
  },
  "input":{"shape":"CreateLicenseServerEndpointRequest"},
  "output":{"shape":"CreateLicenseServerEndpointResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
  "idempotent":true
},
"DeleteLicenseServerEndpoint":{
  "name":"DeleteLicenseServerEndpoint",
  "http":{
    "method":"POST",

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    "requestUri":"/license-server/DeleteLicenseServerEndpoint",
    "responseCode":200
  },
  "input":{"shape":"DeleteLicenseServerEndpointRequest"},
  "output":{"shape":"DeleteLicenseServerEndpointResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
  "idempotent":true
},
"DeregisterIdentityProvider":{
  "name":"DeregisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deregisters the Active Directory identity provider from License Manager user-based
subscriptions.</p>",
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},

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"output":{"shape":"DisassociateUserResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
"idempotent":true
},
"ListIdentityProviders":{"
  "name":"ListIdentityProviders",

"http":{"
  "method":"POST",
  "requestUri":"/identity-provider/ListIdentityProviders",
  "responseCode":200
},
"input":{"shape":"ListIdentityProvidersRequest"},
"output":{"shape":"ListIdentityProvidersResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
},
"ListInstances":{"
  "name":"ListInstances",
  "http":{"
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},

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    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/ListLicenseServerEndpoints",
    "responseCode":200
  },
  "input":{"shape":"ListLicenseServerEndpointsRequest"},
  "output":{"shape":"ListLicenseServerEndpointsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>List the Remote Desktop Services (RDS) License Server endpoints </p>"
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Lists the user-based subscription products available from an identity provider.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{

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    "method": "GET",
    "requestUri": "/tags/{ResourceArn}",
    "responseCode": 200
  },
  "input": { "shape": "ListTagsForResourceRequest" },
  "output": { "shape": "ListTagsForResourceResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" }
  ],
  "documentation": "<p>Returns the list of tags for the specified resource.</p>"
},
"ListUserAssociations": {
  "name": "ListUserAssociations",
  "http": {
    "method": "POST",
    "requestUri": "/user/ListUserAssociations",
    "responseCode": 200
  },
  "input": { "shape": "ListUserAssociationsRequest" },
  "output": { "shape": "ListUserAssociationsResponse" },
  "errors": [
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    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "AccessDeniedException" }
  ],
  "documentation": "<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider": {
  "name": "RegisterIdentityProvider",
  "http": {
    "method": "POST",
    "requestUri": "/identity-provider/RegisterIdentityProvider",
    "responseCode": 200
  },
  "input": { "shape": "RegisterIdentityProviderRequest" },
  "output": { "shape": "RegisterIdentityProviderResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },

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    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
  "idempotent": true
},
"StartProductSubscription": {
  "name": "StartProductSubscription",
  "http": {
    "method": "POST",
    "requestUri": "/user/StartProductSubscription",
    "responseCode": 200
  },
  "input": {"shape": "StartProductSubscriptionRequest"},
  "output": {"shape": "StartProductSubscriptionResponse"},
  "errors": [
    {"shape": "ServiceQuotaExceededException"},
    {"shape": "ConflictException"},
    {"shape": "ValidationException"},
    {"shape": "ThrottlingException"},
    {"shape": "InternalServerError"},
    {"shape": "ResourceNotFoundException"},
    {"shape": "AccessDeniedException"}
  ],
  "documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"
},
"StopProductSubscription": {
  "name": "StopProductSubscription",
  "http": {
    "method": "POST",
    "requestUri": "/user/StopProductSubscription",
    "responseCode": 200
  },
  "input": {"shape": "StopProductSubscriptionRequest"},
  "output": {"shape": "StopProductSubscriptionResponse"},
  "errors": [
    {"shape": "ServiceQuotaExceededException"},
    {"shape": "ConflictException"},
    {"shape": "ValidationException"},
    {"shape": "ThrottlingException"},
    {"shape": "InternalServerError"},
    {"shape": "ResourceNotFoundException"},
    {"shape": "AccessDeniedException"}
  ],
}

```

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"documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>"
},
"TagResource": {
  "name": "TagResource",

  "http": {
    "method": "PUT",
    "requestUri": "/tags/{ResourceArn}",
    "responseCode": 200
  },
  "input": { "shape": "TagResourceRequest" },
  "output": { "shape": "TagResourceResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" }
  ],
  "documentation": "<p>Adds tags to a resource.</p>",
  "idempotent": true
},
"UntagResource": {
  "name": "UntagResource",
  "http": {
    "method": "DELETE",
    "requestUri": "/tags/{ResourceArn}",
    "responseCode": 200
  },
  "input": { "shape": "UntagResourceRequest" },
  "output": { "shape": "UntagResourceResponse" },
  "errors": [
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" }
  ],
  "documentation": "<p>Removes tags from a resource.</p>",
  "idempotent": true
},
"UpdateIdentityProviderSettings": {
  "name": "UpdateIdentityProviderSettings",
  "http": {
    "method": "POST",
    "requestUri": "/identity-provider/UpdateIdentityProviderSettings",
    "responseCode": 200
  },
  "input": { "shape": "UpdateIdentityProviderSettingsRequest" },
  "output": { "shape": "UpdateIdentityProviderSettingsResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },

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    {"shape":"InternalServerErrorException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Updates additional product configuration settings for the registered identity
provider.</p>",
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>You don't have sufficient access to perform this action.</p>",
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{

"ActiveDirectorySettings":{
  "shape":"ActiveDirectorySettings",
  "documentation":"<p>The <code>ActiveDirectorySettings</code> resource contains details about the Active
Directory, including network access details such as domain name and IP addresses, and the credential provider for
user administration.</p>"
  },
  "ActiveDirectoryType":{
    "shape":"ActiveDirectoryType",
    "documentation":"<p>The type of Active Directory either a self-managed Active Directory or an Amazon
Web Services Managed Active Directory.</p>"
  },
  "DirectoryId":{
    "shape":"Directory",
    "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
  }
  },
  "documentation":"<p>Details about an Active Directory identity provider.</p>"
},
"ActiveDirectorySettings":{
  "type":"structure",
  "members":{
    "DomainCredentialsProvider":{
      "shape":"CredentialsProvider",

"documentation":"<p>Points to the <code>CredentialsProvider</code> resource that contains information about
the credential provider for user administration.</p>"
    },

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"DomainIpv4List":{
  "shape":"ActiveDirectorySettingsDomainIpv4ListList",
  "documentation":"<p>A list of domain IPv4 addresses that are used for the Active Directory.</p>"
},
"DomainName":{
  "shape":"String",
  "documentation":"<p>The domain name for the Active Directory.</p>"
},
"DomainNetworkSettings":{
  "shape":"DomainNetworkSettings",
  "documentation":"<p>The <code>DomainNetworkSettings</code> resource contains an array of subnets that
apply for the Active Directory.</p>"
}
},
"documentation":"<p>Contains network access and credential details that are needed for user administration in
the Active Directory.</p>"
},
"ActiveDirectorySettingsDomainIpv4ListList":{
  "type":"list",
  "member":{"shape":"IpV4"},
  "max":2,
  "min":1
},
"ActiveDirectoryType":{
  "type":"string",
  "enum":[
    "SELF_MANAGED",
    "AWS_MANAGED"
  ]
},
"Arn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-
\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
associate.</p>"
    }
  }
},

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    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The identity provider for the user.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance that provides
the user-based subscription.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the user association.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider.</p>"
    }
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  }
},
"documentation":"<p>The request couldn't be completed because it conflicted with the current state of the
resource.</p>",
  "exception":true,
  "fault":true
},
"CreateLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "IdentityProviderArn",
    "LicenseServerSettings"

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    ],
    "members":{
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code>
resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-
managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity
details.</p>"
      },
      "LicenseServerSettings":{
        "shape":"LicenseServerSettings",
        "documentation":"<p>The <code>LicenseServerSettings</code> resource to create for the endpoint. The
settings include the type of license server and the Secrets Manager secret that enables administrators to add or
remove users associated with the license server.</p>"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply for the license server endpoint.</p>"
      }
    }
  },
  "CreateLicenseServerEndpointResponse":{
    "type":"structure",
    "members":{
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
      },
      "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
      }
    }
  },
  "CredentialsProvider":{
    "type":"structure",
    "members":{
      "SecretsManagerCredentialsProvider":{
        "shape":"SecretsManagerCredentialsProvider",
        "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
      }
    }
  },
  "documentation":"<p>Contains information about the credential provider for user
administration.</p>",
  "union":true
},

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"DeleteLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "LicenseServerEndpointArn",
    "ServerType"
  ],
  "members":{
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> resource to delete.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of License Server that the delete request refers to.</p>"
    }
  }
},
"DeleteLicenseServerEndpointResponse":{
  "type":"structure",
  "members":{
    "LicenseServerEndpoint":{
      "shape":"LicenseServerEndpoint",
      "documentation":"<p>Shows details from the <code>LicenseServerEndpoint</code> resource that was
deleted.</p>"
    }
  }
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
    },
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the identity provider to
deregister.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  }
},

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"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{
      "shape":"IdentityProviderSummary",
      "documentation":"<p>Metadata that describes the results
of an identity provider operation.</p>"
    }
  }
},
"Directory":{
  "type":"string",
  "pattern":"^(d|sd)-[0-9a-f]{10}$"
},
"DisassociateUserRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
    },
    "InstanceUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the Active Directory identity provider for the user.</p>"
    }
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",

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    "documentation": "<p>Metadata that describes the associate user operation.</p>"
  }
}
},
"DomainNetworkSettings":{
  "type":"structure",
  "required":["Subnets"],
  "members":{
    "Subnets":{
      "shape":"DomainNetworkSettingsSubnetsList",
      "documentation":"<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
    }
  },
  "documentation":"<p>Contains network settings for the Active Directory domain.</p>"
},
"DomainNetworkSettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{
      "shape":"String",
      "documentation":"<p>The name of an attribute to use as a filter.</p>"
    },
    "Operation":{
      "shape":"String",
      "documentation":"<p>The type of search (For example, eq, geq, leq)</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{

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    "shape": "ActiveDirectoryIdentityProvider",
    "documentation": "<p>The <code>ActiveDirectoryIdentityProvider</code>
resource contains settings and other details about a specific Active Directory identity provider.</p>"
  }
},
"documentation": "<p>Refers to an identity provider.</p>",
"union": true
},
"IdentityProviderSummary": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members": {
    "FailureMessage": {
      "shape": "String",
      "documentation": "<p>The failure message associated with an identity provider.</p>"
    },
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>The <code>IdentityProvider</code> resource contains information about an identity
provider.</p>"
    },
    "IdentityProviderArn": {
      "shape": "Arn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the identity provider.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The
name of the user-based subscription product.</p>"
    },
    "Settings": {
      "shape": "Settings",
      "documentation": "<p>The <code>Settings</code> resource contains details about the registered identity
providers product related configuration settings, such as the subnets to provision VPC endpoints.</p>"
    },
    "Status": {
      "shape": "String",
      "documentation": "<p>The status of the identity provider.</p>"
    }
  },
  "documentation": "<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList": {

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"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[
"InstanceId",
"Products",
>Status"
],
"members":{
"InstanceId":{
"shape":"String",
"documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
},
>LastStatusCheckDate":{
"shape":"String",
"documentation":"<p>The date of the last status check.</p>"
},
Products":{
"shape":"StringList",
"documentation":"<p>A list of provided user-based subscription products.</p>"
},
>Status":{
"shape":"String",
"documentation":"<p>The status of an EC2 instance resource.</p>"
},
>StatusMessage":{
"shape":"String",
"documentation":"<p>The status message for an EC2 instance.</p>"
}
},
"documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList":{
"type":"list",
"member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
>Status",
Username"
],
"members":{
"AssociationDate":{

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"shape": "String",
  "documentation": "<p>The date a user was associated with an EC2 instance.</p>"
},
"DisassociationDate": {
  "shape": "String",
  "documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
},
"Domain": {
  "shape": "String",
  "documentation": "<p>The domain name of the Active Directory that contains the user information for the
product subscription.</p>"
},
"IdentityProvider": {
  "shape": "IdentityProvider",
  "documentation": "<p>The <code>IdentityProvider</code> resource specifies details about the identity
provider.</p>"
},
"InstanceId": {
  "shape": "String",
  "documentation": "<p>The ID of the EC2 instance that provides user-based subscriptions.</p>"
},
"InstanceUserArn": {
  "shape": "Arn",
  "documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance user.</p>"
},
},
"Status": {
  "shape": "String",
  "documentation": "<p>The status of a user associated with an EC2 instance.</p>"
},
"StatusMessage": {
  "shape": "String",
  "documentation": "<p>The status message for users of an EC2 instance.</p>"
},
"Username": {
  "shape": "String",
  "documentation": "<p>The user name from the identity provider for the user.</p>"
}
},
"documentation": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList": {
  "type": "list",
  "member": { "shape": "InstanceUserSummary" }
},
"InternalServerError": {
  "type": "structure",

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"members":{
  "message":{"shape":"String"}
},
"documentation":"<p>An exception occurred with the service.</p>",
"error":{"statusCode":500},
"exception":true,
"fault":true
},
"IPv4":{
  "type":"string",

"pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])\\.?(?!$)|$){4}$"
},
"LicenseServer":{
  "type":"structure",
  "members":{
    "HealthStatus":{
      "shape":"LicenseServerHealthStatus",
      "documentation":"<p>The health status of the RDS license server.</p>"
    },
    "Ipv4Address":{
      "shape":"String",
      "documentation":"<p>A list of domain IPv4 addresses that are used for the RDS license server.</p>"
    },
    "ProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server.</p>"
    }
  },
  "documentation":"<p>Information about a Remote Desktop Services (RDS) license server.</p>"
},
"LicenseServerEndpoint":{
  "type":"structure",
  "members":{
    "CreationTime":{
      "shape":"Timestamp",
      "documentation":"<p>The timestamp when License
Manager created the license server endpoint.</p>"
    },
    "IdentityProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint.</p>"
    },
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server.</p>"

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    },
    "LicenseServerEndpointId":{
      "shape":"LicenseServerEndpointId",
      "documentation":"<p>The ID of the license server endpoint.</p>"
    },
    "LicenseServerEndpointProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server endpoint</p>"
    },
    "LicenseServers":{
      "shape":"LicenseServerList",
      "documentation":"<p>An array of <code>LicenseServer</code>
resources that represent the license servers that are accessed through this endpoint.</p>"
    },
    "ServerEndpoint":{
      "shape":"ServerEndpoint",
      "documentation":"<p>The <code>ServerEndpoint</code> resource contains the network address of the RDS
license server endpoint.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of license server.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The message associated with the provisioning status, if there is one.</p>"
    }
  },
  "documentation":"<p>Contains details about a network endpoint for a Remote Desktop Services (RDS) license
server.</p>"
},
"LicenseServerEndpointId":{"type":"string"},
"LicenseServerEndpointList":{"
  "type":"list",
  "member":{"shape":"LicenseServerEndpoint"}
},
"LicenseServerEndpointProvisioningStatus":{"
  "type":"string",
  "enum":[
    "PROVISIONING",
    "PROVISIONING_FAILED",
    "PROVISIONED",
    "DELETING",
    "DELETION_FAILED",
    "DELETED"
  ]
},
"LicenseServerHealthStatus":{

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    "type":"string",
    "enum":[
      "HEALTHY",
      "UNHEALTHY",
      "NOT_APPLICABLE"
    ]
  },
  "LicenseServerList":{
    "type":"list",
    "member":{"shape":"LicenseServer"}
  },
  "LicenseServerSettings":{
    "type":"structure",
    "required":[
      "ServerSettings",
      "ServerType"
    ],
    "members":{
      "ServerSettings":{
        "shape":"ServerSettings",
        "documentation":"<p>The <code>ServerSettings</code> resource contains the settings for your server.</p>"
      },
      "ServerType":{
        "shape":"ServerType",
        "documentation":"<p>The type of license server.</p>"
      }
    },
    "documentation":"<p>The settings to configure your license server.</p>"
  },
  "ListIdentityProvidersRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Product</p>
</li> <li> <p>DirectoryId</p> </li> </ul>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>The maximum number of results to return from a single request.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      }
    }
  },
}

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"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{
      "shape":"IdentityProviderSummaryList",
      "documentation":"<p>An array of <code>IdentityProviderSummary</code> resources that contain details
about the
Active Directory identity providers that meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>InstanceId</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
    }
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{
      "shape":"InstanceSummaryList",
      "documentation":"<p>An array of <code>InstanceSummary</code> resources that contain details about the
instances that provide user-based subscriptions and also meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are

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additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"

```
    }
  }
},
"ListLicenseServerEndpointsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p>
<ul> <li> <p>IdentityProviderArn</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    }
  }
},
"ListLicenseServerEndpointsRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListLicenseServerEndpointsResponse":{
  "type":"structure",
  "members":{
    "LicenseServerEndpoints":{
      "shape":"LicenseServerEndpointList",
      "documentation":"<p>An array of <code>LicenseServerEndpoint</code> resources that contain detailed
information about the RDS License Servers that meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListProductSubscriptionsRequest":{
```

```

    "type": "structure",
    "required": ["IdentityProvider"],
    "members": {
      "Filters": {
        "shape": "FilterList",
        "documentation": "<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
      },
      "IdentityProvider": {
        "shape": "IdentityProvider",
        "documentation": "<p>An object that specifies details for the identity provider.</p>"
      },
      "MaxResults": {
        "shape": "BoxInteger",
        "documentation": "<p>The maximum number of results to return from
a single request.</p>"
      },
      "NextToken": {
        "shape": "String",
        "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      },
      "Product": {
        "shape": "String",
        "documentation": "<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
      }
    }
  },
  "ListProductSubscriptionsResponse": {
    "type": "structure",
    "members": {
      "NextToken": {
        "shape": "String",
        "documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
      },
      "ProductUserSummaries": {
        "shape": "ProductUserSummaryList",
        "documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
      }
    }
  },
  "ListTagsForResourceRequest": {
    "type": "structure",
    "required": ["ResourceArn"],

```

```

"members":{
  "ResourceArn":{
    "shape":"ResourceArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the resource whose tags you want to
retrieve.</p>",
    "location":"uri",
    "locationName":"ResourceArn"
  }
}
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags for the specified resource.</p>"
    }
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId"
  ],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You
can use the following filters to streamline results:</p> <ul> <li> <p>Status</p> </li> <li> <p>Username</p> </li>
<li> <p>Domain</p> </li> </ul>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    }
  }
}

```

```

    }
  }
},
"ListUserAssociationsResponse":{
  "type":"structure",
  "members":{
    "InstanceUserSummaries":{
      "shape":"InstanceUserSummaryList",
      "documentation":"<p>Metadata that describes the list user association operation.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
    }
  }
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user information for the product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p>"
    },
    "ProductUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) for this product user.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of a product for this user.</p>"
    }
  }
}

```

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    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for a product for this user.</p>"
    },
    "SubscriptionEndDate":{
      "shape":"String",
      "documentation":"<p>The end date of a subscription.</p>"
    },
    "SubscriptionStartDate":{
      "shape":"String",
      "documentation":"<p>The start date of a subscription.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name
from the identity provider for this product user.</p>"
    }
  },
  "documentation":"<p>A summary of the user-based subscription products for a specific user.</p>"
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RdsSalSettings":{
  "type":"structure",
  "required":["RdsSalCredentialsProvider"],
  "members":{
    "RdsSalCredentialsProvider":{
      "shape":"CredentialsProvider",
      "documentation":"<p>The <code>CredentialsProvider</code> resource contains a reference to the credentials
provider that's used for RDS license server user administration.</p>"
    }
  },
  "documentation":"<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider to register.</p>"
    }
  }
}

```

```

    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Settings":{
      "shape":"Settings",
      "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply to the identity provider's registration.</p>"
    }
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{
      "shape":"IdentityProviderSummary",
      "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
    }
  }
},
"ResourceArn":{
  "type":"string",
  "pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-
\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The resource couldn't be found.</p>",
  "error":{
    "statusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecretsManagerCredentialsProvider":{
  "type":"structure",
  "members":{

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    "SecretId":{
      "shape":"SecretsManagerCredentialsProviderSecretIdString",
      "documentation":"<p>The ID of the Secrets Manager secret that contains credentials.</p>"
    }
  },

  "documentation":"<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
},
"SecretsManagerCredentialsProviderSecretIdString":{
  "type":"string",
  "min":1
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServerEndpoint":{
  "type":"structure",
  "members":{
    "Endpoint":{
      "shape":"String",
      "documentation":"<p>The network address of the endpoint.</p>"
    }
  }
},
"documentation":"<p>A network endpoint through which you can access one or more servers.</p>"
},
"ServerSettings":{
  "type":"structure",
  "members":{
    "RdsSalSettings":{
      "shape":"RdsSalSettings",
      "documentation":"<p>The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server.</p>"
    }
  }
},
"documentation":"<p>Contains settings for a specific server.</p>",
  "union":true
},
"ServerType":{
  "type":"string",
  "enum":["RDS_SAL"]
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{

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    "message":{"shape":"String"}
  },
  "documentation":"<p>The request failed because a service quota is exceeded.</p>",
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ],
  "members":{
    "SecurityGroupId":{
      "shape":"SecurityGroup",
      "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoint for activation servers.</p>"
    },
    "Subnets":{
      "shape":"SettingsSubnetsList",
      "documentation":"<p>The subnets defined for the registered identity provider.</p>"
    }
  }
},
  "documentation":"<p>The registered identity providers
product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID
that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC.</p>"
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to start the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    }
  }
}

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```

    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The
name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply to the product subscription.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider of the user.</p>"
    }
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{
      "shape":"ProductUserSummary",
      "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
    }
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to stop the
product subscription.</p>"
    }
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>An object that specifies details for the identity provider.</p>"
  },
  "Product":{
    "shape":"String",
    "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
  },
  "ProductUserArn":{
    "shape":"Arn",

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    "documentation": "<p>The Amazon Resource Name (ARN) of the product user.</p>"
  },
  "Username": {
    "shape": "String",
    "documentation": "<p>The user name from the identity provider for the user.</p>"
  }
},
"StopProductSubscriptionResponse": {
  "type": "structure",
  "required": ["ProductUserSummary"],
  "members": {
    "ProductUserSummary": {
      "shape": "ProductUserSummary",
      "documentation": "<p>Metadata that describes the start product subscription operation.</p>"
    }
  }
},
"String": { "type": "string" },
"StringList": {
  "type": "list",
  "member": { "shape": "String" }
},
"Subnet": {
  "type": "string",
  "pattern": "^subnet-[a-z0-9]{8,17}"
},
"Subnets": {
  "type": "list",
  "member": { "shape": "Subnet" }
},
"TagKeyList": {
  "type": "list",
  "member": { "shape": "String" },
  "max": 50,
  "min": 0,
  "sensitive": true
},
"TagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "Tags"
  ],
  "members": {
    "ResourceArn": {
      "shape": "ResourceArn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",

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    "location": "uri",
    "locationName": "ResourceArn"
  },
  "Tags": {
    "shape": "Tags",
    "documentation": "<p>The tags to apply to the specified resource.</p>"
  }
},
"TagResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"Tags": {
  "type": "map",
  "key": { "shape": "String" },
  "value": { "shape": "String" },
  "max": 50,
  "min": 0,
  "sensitive": true
},
"ThrottlingException": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>The request was denied because of request throttling. Retry the request.</p>",
  "exception": true
},
"Timestamp": { "type": "timestamp" },
"UntagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "TagKeys"
  ],
  "members": {
    "ResourceArn": {
      "shape": "ResourceArn",
      "documentation": "<p>The Amazon
Resource Name (ARN) of the resource that you want to remove tags from.</p>",
      "location": "uri",
      "locationName": "ResourceArn"
    },
    "TagKeys": {
      "shape": "TagKeyList",

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    "documentation": "<p>The tag keys to remove from the resource.</p>",
    "location": "querystring",
    "locationName": "tagKeys"
  }
}
},
"UntagResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"UpdateIdentityProviderSettingsRequest": {
  "type": "structure",
  "required": ["UpdateSettings"],
  "members": {
    "IdentityProvider": { "shape": "IdentityProvider" },
    "IdentityProviderArn": {
      "shape": "Arn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the identity provider to update.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p> <p>Valid values:  
<code>VISUAL_STUDIO_ENTERPRISE</code>  
| <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |  
<code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "UpdateSettings": {
      "shape": "UpdateSettings",
      "documentation": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  }
},
"UpdateIdentityProviderSettingsResponse": {
  "type": "structure",
  "required": ["IdentityProviderSummary"],
  "members": {
    "IdentityProviderSummary": { "shape": "IdentityProviderSummary" }
  }
},
"UpdateSettings": {
  "type": "structure",
  "required": [
    "AddSubnets",
    "RemoveSubnets"

```

```

    ],
    "members":{
      "AddSubnets":{
        "shape":"Subnets",
        "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
      },
      "RemoveSubnets":{
        "shape":"Subnets",
        "documentation":"<p>The ID of one or more subnets to remove.</p>"
      },
      "SecurityGroupId":{
        "shape":"SecurityGroup",
        "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoints for activation servers.</p>"
      }
    },
    "documentation":"<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>A parameter
is not valid.</p>",
    "exception":true
  }
},
"documentation":"<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",

```

```

    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {

    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ]
  },
  {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],

```

```

"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "endpoint": {
      "url": {
        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
"type": "tree"
},
"type": "tree"
{
  "conditions": [],
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ]
    }
  ],
}

```

```

"rules": [
  {
    "conditions": [
      {
"fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
"fn": "getAttr",
                    "argv": [

```

```

        {
            "ref": "PartitionResult"
        },
        "supportsFIPS"
    ]
}
],
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
},
"rules": [
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
"type": "tree"
},

```

```

{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                }
            ],
            true
        }
    ],
    "rules": [
        {
            "conditions": [],
            "rules": [
                {
                    "conditions": [],

```

```

        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}

        },
        "type": "endpoint"
    }
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {

```

```

        "ref": "PartitionResult"
      },
      "supportsDualStack"
    ]
  }
]
},
"rules": [
  {
    "conditions": [],
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ],
    "type": "tree"
  }
],
"type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},

```

```

        "headers": { }
        },
        "type": "endpoint"
    }
    ],
    "type": "tree"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
],
"type": "tree"
}
]
}
{
"pagination": {
    "ListAssociationsForLicenseConfiguration": {
        "input_token": "NextToken",
        "limit_key": "MaxResults",
        "output_token": "NextToken",
        "result_key": "LicenseConfigurationAssociations"
    },
    "ListLicenseConfigurations": {
        "input_token": "NextToken",
        "limit_key": "MaxResults",
        "output_token": "NextToken",
        "result_key": "LicenseConfigurations"
    },
    "ListLicenseSpecificationsForResource": {
        "input_token": "NextToken",
        "limit_key": "MaxResults",
        "output_token": "NextToken",
        "result_key": "LicenseSpecifications"
    },
    "ListResourceInventory": {
        "input_token": "NextToken",
        "limit_key": "MaxResults",
        "output_token": "NextToken",
        "result_key": "ResourceInventoryList"
    }
}

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    },
    "ListUsageForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationUsageList"
    }
  }
}
{
  "pagination": {
    "ListLinuxSubscriptionInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Instances"
    },
    "ListLinuxSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Subscriptions"
    },
    "ListRegisteredSubscriptionProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "RegisteredSubscriptionProviders"
    }
  }
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "DeregisterSubscriptionProvider": {

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"name":"DeregisterSubscriptionProvider",
"http":{"
  "method":"POST",
  "requestUri":"/subscription/DeregisterSubscriptionProvider",
  "responseCode":200
},
"input":{"shape":"DeregisterSubscriptionProviderRequest"},
"output":{"shape":"DeregisterSubscriptionProviderResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"documentation":"<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL)
subscriptions registered to your account.</p>",
"idempotent":true
},
"GetRegisteredSubscriptionProvider":{"
"name":"GetRegisteredSubscriptionProvider",
"http":{"
  "method":"POST",
  "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
  "responseCode":200
},
"input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
"output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"documentation":"<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your
account.</p>",
"idempotent":true
},
"GetServiceSettings":{"
"name":"GetServiceSettings",
"http":{"
  "method":"POST",
  "requestUri":"/subscription/GetServiceSettings",
  "responseCode":200
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
  {"shape":"InternalServerError"},

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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions service settings for your account.</p>",
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux
subscriptions.</p>",
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
  "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "idempotent":true
},
"ListRegisteredSubscriptionProviders":{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200

```

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    },
    "input": {"shape": "ListRegisteredSubscriptionProvidersRequest"},
    "output": {"shape": "ListRegisteredSubscriptionProvidersResponse"},
    "errors": [
      {"shape": "InternalServerError"},
      {"shape": "ThrottlingException"},
      {"shape": "ValidationException"}
    ],
    "documentation": "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
    "idempotent": true
  },
  "ListTagsForResource": {
    "name": "ListTagsForResource",
    "http": {
      "method": "GET",
      "requestUri": "/tags/{resourceArn}",
      "responseCode": 200
    },
    "input": {"shape": "ListTagsForResourceRequest"},
    "output": {"shape": "ListTagsForResourceResponse"},
    "errors": [

      {"shape": "InternalServerError"},
      {"shape": "ResourceNotFoundException"},
      {"shape": "ValidationException"}
    ],
    "documentation": "<p>List the metadata tags that are assigned to the specified Amazon Web Services resource.</p>"
  },
  "RegisterSubscriptionProvider": {
    "name": "RegisterSubscriptionProvider",
    "http": {
      "method": "POST",
      "requestUri": "/subscription/RegisterSubscriptionProvider",
      "responseCode": 200
    },
    "input": {"shape": "RegisterSubscriptionProviderRequest"},
    "output": {"shape": "RegisterSubscriptionProviderResponse"},
    "errors": [
      {"shape": "InternalServerError"},
      {"shape": "ThrottlingException"},
      {"shape": "ValidationException"}
    ],
    "documentation": "<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
    "idempotent": true
  },

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"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
  "idempotent":true
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Remove one or more metadata tag from the specified Amazon Web Services
resource.</p>",
  "idempotent":true
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],

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    "documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
    "idempotent": true
  }
},
"shapes": {
  "Boolean": {
    "type": "boolean",
    "box": true
  },
  "BoxInteger": {
    "type": "integer",
    "box": true
  },
  "BoxLong": {
    "type": "long",
    "box": true
  },
  "DeregisterSubscriptionProviderRequest": {
    "type": "structure",
    "required": ["SubscriptionProviderArn"],
    "members": {
      "SubscriptionProviderArn": {
        "shape": "SubscriptionProviderArn",
        "documentation": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to
deregister.</p>"
      }
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "type": "structure",
    "members": {
    }
  },
  "Filter": {
    "type": "structure",
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>The type of name to filter by.</p>"
      },
      "Operator": {
        "shape": "Operator",
        "documentation": "<p>An operator for filtering results.</p>"
      },
      "Values": {
        "shape": "StringList",
        "documentation": "<p>One or more values for the name to filter by.</p>"
      }
    }
  }
}

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    },
    "documentation": "<p>A filter object that is used to return more specific results from a describe operation. Filters
can be used to match a set of resources by specific criteria.</p>"
  },
  "FilterList": {
    "type": "list",
    "member": { "shape": "Filter" }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "type": "structure",
    "required": ["SubscriptionProviderArn"],
    "members": {
      "SubscriptionProviderArn": {
        "shape": "SubscriptionProviderArn",
        "documentation": "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details
for.</p>"
      }
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
    "type": "structure",
    "members": {
      "LastSuccessfulDataRetrievalTime": {
        "shape": "String",
        "documentation": "<p>The timestamp from the last time License Manager retrieved subscription details from
your registered third-party Linux subscription provider.</p>"
      },
      "SecretArn": {
        "shape": "SecretArn",
        "documentation": "<p>The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets
Manager for the BYOL registration resource specified in the request.</p>"
      }
    }
  },
  "SubscriptionProviderArn": {
    "shape": "SubscriptionProviderArn",
    "documentation": "<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in
the request.</p>"
  },
  "SubscriptionProviderSource": {
    "shape": "SubscriptionProviderSource",
    "documentation": "<p>The subscription provider for the BYOL registration resource specified in the
request.</p>"
  },
  "SubscriptionProviderStatus": {
    "shape": "SubscriptionProviderStatus",
    "documentation": "<p>The status of the Linux subscription provider access token from the last successful
subscription data request.</p>"
  },
  },

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"SubscriptionProviderStatusMessage":{
  "shape":"String",
  "documentation":"<p>The detailed message from your subscription provider token status.</p>"
}
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{
      "shape":"StringList",
      "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",
      "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscoverySettings":{
      "shape":"LinuxSubscriptionsDiscoverySettings",
      "documentation":"<p>Lists the settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    },
    "Status":{
      "shape":"Status",
      "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
    },
    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A
message which details the Linux subscriptions service settings current status.</p>"
    }
  }
},
"Instance":{
  "type":"structure",
  "members":{
    "AccountID":{
      "shape":"String",
      "documentation":"<p>The account ID which owns the instance.</p>"
    },
    "AmiId":{
      "shape":"String",

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    "documentation": "<p>The AMI ID used to launch the instance.</p>"
  },
  "DualSubscription": {
    "shape": "String",
    "documentation": "<p>Indicates that you have two different license subscriptions for the same software on your
instance.</p>"
  },
  "InstanceID": {
    "shape": "String",
    "documentation": "<p>The instance ID of the resource.</p>"
  },
  "InstanceType": {
    "shape": "String",
    "documentation": "<p>The instance type of the resource.</p>"
  },
  "LastUpdatedTime": {
    "shape": "String",
    "documentation": "<p>The
time in which the last discovery updated the instance details.</p>"
  },
  "OsVersion": {
    "shape": "String",
    "documentation": "<p>The operating system software version that runs on your instance.</p>"
  },
  "ProductCode": {
    "shape": "ProductCodeList",
    "documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
  },
  "Region": {
    "shape": "String",
    "documentation": "<p>The Region the instance is running in.</p>"
  },
  "RegisteredWithSubscriptionProvider": {
    "shape": "String",
    "documentation": "<p>Indicates that your instance uses a BYOL license subscription from a third-party Linux
subscription provider that you've registered with License Manager.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of the instance.</p>"
  },
  "SubscriptionName": {
    "shape": "String",
    "documentation": "<p>The name of the license subscription that the instance uses.</p>"
  },
  "SubscriptionProviderCreateTime": {

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    "shape": "String",
    "documentation": "<p>The timestamp when you registered the third-party Linux subscription provider for the
subscription that the instance uses.</p>"
  },
  "SubscriptionProviderUpdateTime": {
    "shape": "String",
    "documentation": "<p>The timestamp from the last time that the instance synced with the registered third-party
Linux subscription provider.</p>"
  },
  "UsageOperation": {
    "shape": "String",
    "documentation": "<p>The usage operation of the instance. For more information, see For more information,
see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage
operation values</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
},
"InstanceList": {
  "type": "list",
  "member": { "shape": "Instance" }
},
"InternalServerError": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  }
},
"documentation": "<p>An exception occurred with the service.</p>",
"exception": true,
"fault": true
},
"LinuxSubscriptionsDiscovery": {
  "type": "string",
  "enum": [
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings": {
  "type": "structure",
  "required": [
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members": {
    "OrganizationIntegration": {
      "shape": "OrganizationIntegration",

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    "documentation": "<p>Details
if you have enabled resource discovery across your accounts in Organizations.</p>"
  },
  "SourceRegions": {
    "shape": "StringList",
    "documentation": "<p>The Regions in which to discover data for Linux subscriptions.</p>"
  }
},
"documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
},
"ListLinuxSubscriptionInstancesRequest": {
  "type": "structure",
  "members": {
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>An array of structures that you can use to filter the results by your specified criteria. For
example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code>
operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-
west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key
to streamline results:</p>
<ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p>
<code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p>
<code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p>
<code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p>
<code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following
<code>Operator</code> values to define the behavior of the filter:</p> <ul> <li> <p> <code>contains</code> </p>
</li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>NotEqual</code> </p> </li> </ul>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>The maximum items to return in a request.</p>"
    },
    "NextToken": {
      "shape": "ListLinuxSubscriptionInstancesRequestNextTokenString",
      "documentation": "<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
    }
  }
},
"documentation": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
  "type": "string",
  "max": 16384,
  "min": 1
},
"ListLinuxSubscriptionInstancesResponse": {
  "type": "structure",

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"members":{
  "Instances":{
    "shape":"InstanceList",
    "documentation":"<p>An array that contains instance objects.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of
<code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't
match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p>
<code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p>
<code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code>
</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionsRequestNextTokenString",
      "documentation":"<p>A token to specify where
to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
  "documentation":"<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionsRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{

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    "shape":"String",
    "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
  },
  "Subscriptions":{
    "shape":"SubscriptionList",
    "documentation":"<p>An array that contains subscription objects.</p>"
  }
}
},
"ListRegisteredSubscriptionProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
      "documentation":"<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    },
    "SubscriptionProviderSources":{
      "shape":"SubscriptionProviderSourceList",
      "documentation":"<p>To filter your results, specify which subscription providers to return in the list.</p>"
    }
  }
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't
included in this request. Use this token with the next request to retrieve additional objects.</p>"
    },
    "RegisteredSubscriptionProviders":{
      "shape":"RegisteredSubscriptionProviderList",
      "documentation":"<p>The list of BYOL registration resources that fit the criteria you specified in the
request.</p>"
    }
  }
}

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    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource for which to list metadata
tags.</p>",
      "location":"uri",
      "locationName":"resourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{
      "shape":"Tags",
      "documentation":"<p>The metadata tags for the requested resource.</p>"
    }
  }
},
"Operator":{
  "type":"string",
  "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
  "min":1
},
"OrganizationIntegration":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{

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"type":"structure",
"required":[
  "SecretArn",
  "SubscriptionProviderSource"
],
"members":{
  "SecretArn":{
    "shape":"SecretArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>"
  },
  "SubscriptionProviderSource":{
    "shape":"SubscriptionProviderSource",
    "documentation":"<p>The supported Linux subscription provider to register.</p>"
  },
  "Tags":{
    "shape":"Tags",
    "documentation":"<p>The metadata tags to assign to your registered Linux subscription provider resource.</p>"
  }
}
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>The Linux subscription provider that you registered.</p>"
    },
    "SubscriptionProviderStatus":{
      "shape":"SubscriptionProviderStatus",
      "documentation":"<p>Indicates the status of the registration action for the Linux subscription provider that you requested.</p>"
    }
  }
},
"RegisteredSubscriptionProvider":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{
      "shape":"String",
      "documentation":"<p>The timestamp from the last time that License Manager accessed third-party

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subscription data for your account from your registered Linux subscription provider.</p>"

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  },
  "SecretArn":{
    "shape":"SecretArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your
registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"
  },
  "SubscriptionProviderArn":{
    "shape":"SubscriptionProviderArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
  },
  "SubscriptionProviderSource":{

    "shape":"SubscriptionProviderSource",
    "documentation":"<p>A supported third-party Linux subscription provider. License Manager currently
supports Red Hat subscriptions.</p>"
  },
  "SubscriptionProviderStatus":{
    "shape":"SubscriptionProviderStatus",
    "documentation":"<p>Indicates the status of your registered Linux subscription provider access token from the
last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the
offline token.</p>"
  },
  "SubscriptionProviderStatusMessage":{
    "shape":"String",
    "documentation":"<p>A detailed message that's associated with your BYOL subscription provider token
status.</p>"
  }
},
  "documentation":"<p>A third-party provider for operating system (OS) platform software and license
subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can
get subscription
data from the registered provider.</p>"
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>Unable to find the requested Amazon Web Services resource.</p>",
  "exception":true
},
"SecretArn":{
```

```

    "type": "string",
    "pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
  },
  "Status": {
    "type": "string",
    "enum": [
      "InProgress",
      "Completed",
      "Successful",
      "Failed"
    ]
  },
  "String": { "type": "string" },
  "StringList": {
    "type": "list",
    "member": { "shape": "StringListMemberString" },
    "max": 100,
    "min": 1
  },
  "StringListMemberString": {
    "type": "string",
    "max": 100,
    "min": 1
  },
  "StringMap": {
    "type": "map",
    "key": { "shape": "String" },
    "value": { "shape": "String" }
  },
  "Subscription": {
    "type": "structure",
    "members": {
      "InstanceCount": {
        "shape": "BoxLong",
        "documentation": "<p>The total amount of running instances using this subscription.</p>"
      },
      "Name": {
        "shape": "String",
        "documentation": "<p>The name of the subscription.</p>"
      },
      "Type": {
        "shape": "String",
        "documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
      }
    }
  },

```

```

    "documentation": "<p>An object which details a discovered Linux subscription.</p>"
  },
  "SubscriptionList": {
    "type": "list",
    "member": { "shape": "Subscription" }
  },
  "SubscriptionProviderArn": {
    "type": "string",
    "pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource": {
    "type": "string",
    "enum": ["RedHat"]
  },
  "SubscriptionProviderSourceList": {
    "type": "list",
    "member": { "shape": "SubscriptionProviderSource" }
  },
  "SubscriptionProviderStatus": {
    "type": "string",
    "enum": [
      "ACTIVE",
      "INVALID",
      "PENDING"
    ]
  },
  ],
},
"TagKeyList": {
  "type": "list",
  "member": { "shape": "String" },
  "max": 50,
  "min": 0,
  "sensitive": true
},
"TagResourceRequest": {
  "type": "structure",
  "required": [
    "resourceArn",
    "tags"
  ],
  ],
  "members": {
    "resourceArn": {
      "shape": "SubscriptionProviderArn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the Amazon
Web Services resource to which to add the specified metadata tags.</p>",
      "location": "uri",
      "locationName": "resourceArn"
    },
  },
}

```

```

    "tags":{
      "shape":"Tags",
      "documentation":"<p>The metadata tags to assign to the Amazon Web Services resource. Tags are formatted
as key value pairs.</p>"
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied due to request throttling.</p>",
    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tagKeys"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove
the metadata tags from.</p>",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tagKeys":{
        "shape":"TagKeyList",
        "documentation":"<p>A list of metadata tag keys to remove from the requested resource.</p>",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  }
}

```

```

    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "required":[
      "LinuxSubscriptionsDiscovery",
      "LinuxSubscriptionsDiscoverySettings"
    ],
    "members":{
      "AllowUpdate":{
        "shape":"Boolean",
        "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you
allow updates, you can aggregate
Linux subscription data in more than one home Region.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      }
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{
        "shape":"StringList",
        "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Lists
if discovery has been enabled for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      }
    }
  }
}

```

```

    },
    "Status":{
      "shape":"Status",
      "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
    },
    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A message which details the Linux subscriptions service settings current status.</p>"
    }
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}

},
"documentation":"<p>With License Manager, you can discover and track your commercial Linux subscriptions on
running Amazon EC2 instances.</p>"
}
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
  "version": "1.0",
  "examples": {
  }
}
}

```

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```
{  
  "pagination": {  
    "ListIdentityProviders": {  
      "input_token": "NextToken",
```

```

"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "IdentityProviderSummaries"
},
>ListInstances": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "InstanceSummaries"
},
>ListProductSubscriptions": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "ProductUserSummaries"
},
>ListUserAssociations": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "InstanceUserSummaries"
},
>ListLicenseServerEndpoints": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "LicenseServerEndpoints"
}
}
}
}

```

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```

{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {

```

```

"conditions": [
  {
    "fn": "booleanEquals",
    "argv": [
      {
        "ref": "UseFIPS"
      },
      true
    ]
  }
],
"error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
"type": "error"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
  "type": "error"
},
{
  "conditions": [],
  "endpoint": {
    "url": {
      "ref": "Endpoint"
    },
    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
],
},
{
  "conditions": [
    {
      "fn": "isSet",

```

```

    "argv": [
      {
        "ref": "Region"
      }
    ]
  },
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn":
"booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            },
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {

```

```

        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },

```

```

    {
      "conditions": [],
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
      "type": "error"
    }
  ],
  {
    "conditions": [
      {
        "fn": "booleanEquals",

"argv": [
      {
        "ref": "UseFIPS"
      },
      true
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]
          }
        ]
      }
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
      "properties": {},

```

```

        "headers": {}
    },
    "type": "endpoint"
}
]
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type":
"tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ]
        }
    ]
}
],
"type": "tree",

```

```

        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        {
            "conditions": [],
            "error": "DualStack is enabled but this partition does not support DualStack",
            "type": "error"
        }
    ],
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
{
    "ResponseMetadata": {
        "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
    }
}
{
    "version": "1.0",
    "parameters": {

```

```

"Region": {
  "builtIn": "AWS::Region",
  "required": false,
  "documentation": "The AWS region used to dispatch the request.",
  "type": "String"
},
"UseDualStack": {
  "builtIn": "AWS::UseDualStack",
  "required": true,
  "default": false,
  "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
  "type": "Boolean"
},
"UseFIPS": {
  "builtIn": "AWS::UseFIPS",
  "required": true,
  "default": false,
  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
  "type": "Boolean"
},
"Endpoint": {
  "builtIn": "SDK::Endpoint",
  "required": false,
  "documentation": "Override the endpoint used to send this request",
  "type": "String"
}
},
"rules": [
{
  "conditions": [
    {
      "fn": "isSet",
      "argv": [
        {
          "ref": "Endpoint"
        }
      ]
    }
  ]
}
],
"rules": [
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [

```

```

        {
            "ref": "UseFIPS"
        },
        true
    ]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
},
{
    "conditions": [],
    "endpoint": {
        "url": {
            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ]
}

```

```

    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ],
        },
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ],
        }
      ],
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [

```

```

        {
            "ref": "PartitionResult"
        },
        "supportsFIPS"
    ]
}
]
},
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
},
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
        }
    }
],
"properties": {},
    "headers": {}
},
    "type": "endpoint"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
}
],
"type": "tree"
},

```

```

{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            },
            true
          ]
        }
      ],
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ],
      "type": "tree"
    },
    {

```

```

        "conditions": [],
        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ]
},
"rules": [

{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                true,
                {
                    "fn": "getAttr",
                    "argv": [
                        {
                            "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                    ]
                }
            ]
        }
    ]
},
],

"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        }
    }
]

```

```

        },
        "type": "endpoint"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
{
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",

```

```

        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

```

```

        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
},
"params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
}
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},

```

```

{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",

```

```

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",

```

```

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",

```

```

        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {

```

```
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
},
"version": "1.0"
}
```

1.220 pkginfo 1.12.1.2

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1.221 more-itertools 10.6.0

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1.223 markdown 3.7

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```

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.6
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect,

modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record =
 decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and

Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.python.org/pypi/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<http://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/README.md

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

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Found in path(s):

* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/LICENSE.rst

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

ASN.1 library for Python

=====

.. toctree::

 :maxdepth: 1

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.python.org/pypi/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol->

buffers/>`_

or `FlatBuffers <<https://google.github.io/flatbuffers/>>`, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers

and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::  
   :maxdepth: 2
```

[/pyasn1/contents](#)

Use case

```
.. toctree::  
   :maxdepth: 2
```

[/example-use-case](#)

Download & Install

```
.. toctree::  
   :maxdepth: 2
```

[/download](#)

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
   :maxdepth: 1
```

[/changelog](#)

License

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::
```

:maxdepth: 2

/license

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` _
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` _ at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` _
or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` _
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>` _ by
Olivier Dubuisson

* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` _ by
Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU
standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` _

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` _
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst

1.225 webencodings 0.5.1

1.225.1 Available under license :

BSD-style without advertising clause

1.226 six 1.16.0

1.226.1 Available under license :

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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immerrr again

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Wouter Bolsterlee

Brett Cannon

Jason R. Coombs

Julien Danjou

Ben Darnell

Ben Davis

Jon Dufresne

Tim Graham

Thomas Grainger

Max Grender-Jones

Pierre Grimaud

Joshua Harlow

Toshiki Kataoka

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Anselm Kruis

Ivan Levkivskyi

Alexander Lukanin

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Jordan Moldow

Berker Peksag

Sridhar Ratnakumar

Erik Rose

Mirko Rossini

Peter Ruibal

Miroslav Shubernetskiy

Eli Schwartz

Anthony Sottile

Victor Stinner

Jonathan Vanasco

Lucas Wiman

Jingxin Zhu

If you think you belong on this list, please let me know! --Benjamin
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1.227 recharts 2.15.1

1.227.1 Available under license :

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OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*! decimal.js-light v2.5.1 <https://github.com/MikeMcl/decimal.js-light/LICENCE> */

/**

* @license React

* react-is.production.min.js

*

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*

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* LICENSE file in the root directory of this source tree.

*/

1.228 botocore 1.37.25

1.228.1 Available under license :

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```

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      { "shape": "ServerInternalException" }
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  },
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```

```

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  {"shape":"ServerInternalException"}
],
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the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>"
},
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    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Creates a grant for the specified license. A grant shares the use of license entitlements with
a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information,
see <a href="https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html">Granted
licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
},
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```

```

    "requestUri": "/"
  },
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  ],
  "documentation": "<p>Creates a new version of the specified grant. For more information, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
},
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```

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  ],
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specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy,
Dedicated Instance,
Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the
number of licenses purchased and used.</p>"
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  },
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},
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}

```

```

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  },
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    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ],
  "documentation":"<p>Creates a long-lived
token.</p><p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
},
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```

```

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  },
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```

```

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  ],
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configuration that is in use.</p>"
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  ],
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action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
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```

```

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets detailed
information about the specified license configuration.</p>"
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"

```

```

    },
    "input": {"shape": "GetLicenseConversionTaskRequest"},
    "output": {"shape": "GetLicenseConversionTaskResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ],
    "documentation": "<p>Gets information about the specified license type conversion task.</p>"
  },
  "GetLicenseManagerReportGenerator": {
    "name": "GetLicenseManagerReportGenerator",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "GetLicenseManagerReportGeneratorRequest"},
    "output": {"shape": "GetLicenseManagerReportGeneratorResponse"},
    "errors": [
      {"shape": "ValidationException"},
      {"shape": "InvalidParameterValueException"},
      {"shape": "ResourceLimitExceededException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "AccessDeniedException"},
      {"shape": "ResourceNotFoundException"}
    ],
    "documentation": "<p>Gets information about the specified report generator.</p>"
  },
  "GetLicenseUsage": {
    "name": "GetLicenseUsage",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "GetLicenseUsageRequest"},
    "output": {"shape": "GetLicenseUsageResponse"},
    "errors": [
      {"shape": "ValidationException"},
      {"shape": "InvalidParameterValueException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ServerInternalException"}
    ]
  }
}

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    ],
    "documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
  },
  "GetServiceSettings": {
    "name": "GetServiceSettings",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "GetServiceSettingsRequest" },
    "output": { "shape": "GetServiceSettingsResponse" },
    "errors": [
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Gets the License Manager settings for the current Region.</p>"
  },
  "ListAssociationsForLicenseConfiguration": {
    "name": "ListAssociationsForLicenseConfiguration",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "ListAssociationsForLicenseConfigurationRequest" },
    "output": { "shape": "ListAssociationsForLicenseConfigurationResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "FilterLimitExceededException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>"
  },
  "ListDistributedGrants": {
    "name": "ListDistributedGrants",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "ListDistributedGrantsRequest" },
    "output": { "shape": "ListDistributedGrantsResponse" },
    "errors": [

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    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configuration operations that failed.</p>"
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configurations for your account.</p>"
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{

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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
}

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    ],
    "documentation": "<p>Describes the license configurations for the specified resource.</p>"
  },
  "ListLicenseVersions": {
    "name": "ListLicenseVersions",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "ListLicenseVersionsRequest" },
    "output": { "shape": "ListLicenseVersionsResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" },
      { "shape": "ServerInternalException" }
    ]
  },
  "documentation": "<p>Lists all versions of the specified license.</p>"
},
"ListLicenses": {
  "name": "ListLicenses",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "ListLicensesRequest" },
  "output": { "shape": "ListLicensesResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InvalidParameterValueException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "RateLimitExceededException" },
    { "shape": "ServerInternalException" }
  ]
},
"documentation": "<p>Lists the licenses for your account.</p>"
},
"ListReceivedGrants": {
  "name": "ListReceivedGrants",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "ListReceivedGrantsRequest" },
  "output": { "shape": "ListReceivedGrantsResponse" },
  "errors": [
    { "shape": "ValidationException" },

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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>"
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists received licenses.</p>"
}

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},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists resources managed using Systems Manager inventory.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[]
}

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    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation": "<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation": "<p>Lists your tokens.</p>"
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>"
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{

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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Rejects the specified grant.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
}

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"documentation": "<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},

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"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"InvalidResourceStateException"},
  {"shape":"LicenseUsageException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Adds or removes the specified license configurations for the specified Amazon Web
Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot
update the license specifications
for launch templates and CloudFormation templates, as they send license configurations to the operation that creates
the resource.</p>"
},
"UpdateServiceSettings":{"
  "name":"UpdateServiceSettings",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Updates License Manager settings for the current Region.</p>"
}
},
"shapes":{"
  "AcceptGrantRequest":{"
    "type":"structure",
    "required":["GrantArn"],
    "members":{"
      "GrantArn":{"
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    }
  },
  "AcceptGrantResponse":{"
    "type":"structure",
    "members":{"

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"GrantArn":{
  "shape":"Arn",
  "documentation":"<p>Grant ARN.</p>"
},
"Status":{
  "shape":"GrantStatus",
  "documentation":"<p>Grant status.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>Grant version.</p>"
}
},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Access to resource denied.</p>",
  "exception":true
},
"ActivationOverrideBehavior":{
  "type":"string",
  "enum":[
    "DISTRIBUTED_GRANTS_ONLY",
    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{

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    "type": "string",
    "max": 2048,
    "pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62};[A-Za-z0-9_/-]{0,63};[A-
Za-z0-9_/-]{0,63};[A-Za-z0-9][A-Za-z0-9:/_+=,@-]{0,1023}$"
  },
  "ArnList": {
    "type": "list",
    "member": { "shape": "Arn" }
  },
  "AuthorizationException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    }
  },
  "documentation": "<p>The Amazon Web Services user account does not have permission to perform the action.
Check the IAM policy associated with this account.</p>",
  "exception": true
},
"AutomatedDiscoveryInformation": {
  "type": "structure",
  "members": {
    "LastRunTime": {
      "shape": "DateTime",
      "documentation": "<p>Time
that automated discovery last ran.</p>"
    }
  },
  "documentation": "<p>Describes automated discovery.</p>"
},
"Boolean": { "type": "boolean" },
"BorrowConfiguration": {
  "type": "structure",
  "required": [
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members": {
    "AllowEarlyCheckIn": {
      "shape": "BoxBoolean",
      "documentation": "<p>Indicates whether early check-ins are allowed.</p>"
    },
    "MaxTimeToLiveInMinutes": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>"
    }
  },
  "documentation": "<p>Details about a borrow configuration.</p>"
},

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"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{"
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{"
    "LicenseConsumptionToken":{"
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Beneficiary":{"
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    }
  }
},
"CheckInLicenseResponse":{"
  "type":"structure",
  "members":{"
  }
},
"CheckoutBorrowLicenseRequest":{"
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{"
    "LicenseArn":{"
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license. The license must use the borrow
consumption configuration.</p>"
    },
    "Entitlements":{"
      "shape":"EntitlementDataList",
      "documentation":"<p>License entitlements. Partial checkouts are not supported.</p>"
    },
    "DigitalSignatureMethod":{"
      "shape":"DigitalSignatureMethod",

      "documentation":"<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm
PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital
Signature with RSASSA-PSS</a>.</p>"
    },
    "NodeId":{"

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    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  },
  "CheckoutMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Information about constraints.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  }
},
"CheckoutBorrowLicenseResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "EntitlementsAllowed": {
      "shape": "EntitlementDataList",
      "documentation": "<p>Allowed license entitlements.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "SignedToken": {
      "shape": "SignedToken",
      "documentation": "<p>Signed token.</p>"
    },
    "IssuedAt": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Date and time at which the license checkout expires.</p>"
    },
    "CheckoutMetadata": {
      "shape": "MetadataList",
      "documentation": "<p>Information about constraints.</p>"
    }
  }
}

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    }
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "CheckoutType":{
      "shape":"CheckoutType",
      "documentation":"<p>Checkout type.</p>"
    },
    "KeyFingerprint":{
      "shape":"String",
      "documentation":"<p>Key fingerprint identifying the license.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementDataList",
      "documentation":"<p>License entitlements.</p>"
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    },
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    }
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{

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    "shape": "CheckoutType",
    "documentation": "<p>Checkout type.</p>"
  },
  "LicenseConsumptionToken": {
    "shape": "String",
    "documentation": "<p>License consumption token.</p>"
  },
  "EntitlementsAllowed": {
    "shape": "EntitlementDataList",
    "documentation": "<p>Allowed license entitlements.</p>"
  },
  "SignedToken": {
    "shape": "SignedToken",
    "documentation": "<p>Signed token.</p>"
  },
  "NodeId": {
    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  },
  "IssuedAt": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout is issued.</p>"
  },
  "Expiration": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout expires.</p>"
  },
  "LicenseArn": {
    "shape": "String",
    "documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
  }
},
"CheckoutType": {
  "type": "string",
  "enum": [
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken": {
  "type": "string",
  "max": 36,
  "min": 1
},
"ClientToken": {
  "type": "string",

```

```

    "max":2048,
    "pattern":"\\S+"
  },
  "ConflictException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
    "exception":true
  },
  "ConsumedLicenseSummary":{
    "type":"structure",
    "members":{
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":"<p>Resource type of the resource consuming a
license.</p>"
      },
      "ConsumedLicenses":{
        "shape":"BoxLong",
        "documentation":"<p>Number of licenses consumed by the resource.</p>"
      }
    },
    "documentation":"<p>Details about license consumption.</p>"
  },
  "ConsumedLicenseSummaryList":{
    "type":"list",
    "member":{"shape":"ConsumedLicenseSummary"}
  },
  "ConsumptionConfiguration":{
    "type":"structure",
    "members":{
      "RenewType":{
        "shape":"RenewType",
        "documentation":"<p>Renewal frequency.</p>"
      },
      "ProvisionalConfiguration":{
        "shape":"ProvisionalConfiguration",
        "documentation":"<p>Details about a provisional configuration.</p>"
      },
      "BorrowConfiguration":{
        "shape":"BorrowConfiguration",
        "documentation":"<p>Details about a borrow configuration.</p>"
      }
    },
    "documentation":"<p>Details about a consumption configuration.</p>"
  },
}

```

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"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Principals":{
      "shape":"PrincipalArnList",
      "documentation":"<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the grant.</p>"
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Allowed operations for the grant.</p>"
    }
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    }
  }
}

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    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],

  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Allowed operations for the grant.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>Grant status reason.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  },

```

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"Options":{

  "shape":"Options",
  "documentation":"<p>The options specified for the grant.</p>"
}
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>New version of the grant.</p>"
    }
  }
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension used to track the license inventory.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{

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    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
  },
  "LicenseRules": {
    "shape": "StringList",
    "documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code>
dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li>
<p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code>
dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> |
<code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are
<code>True</code> and <code>False</code>.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags to add to the
license configuration.</p>"
  },
  "DisassociateWhenNotFound": {
    "shape": "BoxBoolean",
    "documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  }
}
},
"CreateLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "type": "structure",

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"required":[
  "ResourceArn",
  "SourceLicenseContext",
  "DestinationLicenseContext"
],
"members":{
  "ResourceArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>"
  },
  "SourceLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information that identifies the license type you are converting from. For the structure of
the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
  },
  "DestinationLicenseContext":{
    "shape":"LicenseConversionContext",
    "documentation":"<p>Information that identifies the license type you are converting to. For the structure of the
destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
  }
}
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>The ID of the created license type conversion task.</p>"
    }
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{
      "shape":"ReportGeneratorName",

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    "documentation": "<p>Name of the report generator.</p>"
  },
  "Type": {
    "shape": "ReportTypeList",
    "documentation": "<p>Type of reports to generate. The following report types an be generated:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption
for a license configuration.</p> </li> </ul>"
  },
  "ReportContext": {
    "shape": "ReportContext",
    "documentation": "<p>Defines the type of license configuration the report generator tracks.</p>"
  },
  "ReportFrequency": {
    "shape": "ReportFrequency",
    "documentation": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
  },
  "ClientToken": {
    "shape": "ClientRequestToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  },
  "Description": {
    "shape": "String",
    "documentation": "<p>Description of the report generator.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags to add to the report generator.</p>"
  }
}
},
"CreateLicenseManagerReportGeneratorResponse": {
  "type": "structure",
  "members": {
    "LicenseManagerReportGeneratorArn": {
      "shape": "String",
      "documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
    }
  }
}
},
"CreateLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseName",
    "ProductName",
    "ProductSKU",

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    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"Issuer",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region for the license.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>"
    },
  },

```

```

"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Information about the license.</p>"
},
"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
}
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
  }
}

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```

"LicenseName":{
  "shape":"String",
  "documentation":"<p>License name.</p>"
},
"ProductName":{
  "shape":"String",
  "documentation":"<p>Product name.</p>"
},
"Issuer":{
  "shape":"Issuer",
  "documentation":"<p>License issuer.</p>"
},
"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region of the license.</p>"
},
"Validity":{
  "shape":"DatetimeRange",
  "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Information about the license.</p>"
},
"Entitlements":{
  "shape":"EntitlementList",
  "documentation":"<p>License
entitlements.</p>"
},
"ConsumptionConfiguration":{
  "shape":"ConsumptionConfiguration",
  "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
},
"Status":{
  "shape":"LicenseStatus",
  "documentation":"<p>License status.</p>"
},
"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
},
"SourceVersion":{
  "shape":"String",
  "documentation":"<p>Current version of the license.</p>"
}

```

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    }
  },
  "CreateLicenseVersionResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>License
ARN.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>New version of the license.</p>"
      },
      "Status":{
        "shape":"LicenseStatus",
        "documentation":"<p>License status.</p>"
      }
    }
  },
  "CreateTokenRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of
the JWT token.</p>"
      },
      "RoleArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License
Manager does not check whether the roles are in use.</p>"
      },
      "ExpirationInDays":{
        "shape":"Integer",
        "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365
days.</p>"
      },
      "TokenProperties":{
        "shape":"MaxSize3StringList",
        "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
      },
      "ClientToken":{

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    "shape":"ClientToken",
    "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
  }
}
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"TokenType",
      "documentation":"<p>Token type.</p>"
    },
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
  "type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  },
  "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
>DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",

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    "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
  },
  "StatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>The Status reason for the delete request.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>Current version of the grant.</p>"
  }
},
"DeleteGrantResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Grant ARN.</p>"
    },
    "Status": {
      "shape": "GrantStatus",
      "documentation": "<p>Grant status.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>Grant version.</p>"
    }
  }
},
"DeleteLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ID of the license configuration.</p>"
    }
  }
},
"DeleteLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
  }
},
"DeleteLicenseManagerReportGeneratorRequest": {
  "type": "structure",
  "required": ["LicenseManagerReportGeneratorArn"],
  "members": {

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"LicenseManagerReportGeneratorArn":{
  "shape":"String",
  "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
}
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the license.</p>"
    }
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    }
  }
}

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    }
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
    },
    "MaxCount":{
      "shape":"Long",
      "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
    },
    "Overage":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether overages are allowed.</p>"
    },
    "Unit":{
      "shape":"EntitlementUnit",
      "documentation":"<p>Entitlement unit.</p>"
    },
    "AllowCheckIn":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether check-ins are allowed.</p>"
    }
  },
  "documentation":"<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData":{
  "type":"structure",

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"required":[
  "Name",
  "Unit"
],
"members":{
  "Name":{
    "shape":"String",
    "documentation":"<p>Entitlement data name.</p>"
  },
  "Value":{
    "shape":"String",
    "documentation":"<p>Entitlement data value.</p>"
  },
  "Unit":{
    "shape":"EntitlementDataUnit",
    "documentation":"<p>Entitlement data unit.</p>"
  }
},
"documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",

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    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The entitlement is not allowed.</p>",
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",

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    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement usage name.</p>"
    },
    "ConsumedValue":{
      "shape":"String",
      "documentation":"<p>Resource usage consumed.</p>"
    },
    "MaxCount":{
      "shape":"String",
      "documentation":"<p>Maximum entitlement usage count.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement usage unit.</p>"
    }
  },
  "documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "DryRun":{
      "shape":"Boolean",
      "documentation":"<p>Checks whether you have the required permissions for the action, without actually making the request. Provides

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an error response if you do not have the required permissions.</p>"

```
    }
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license consumption expires.</p>"
    }
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{
      "shape":"FilterValues",
      "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
}
```

```

    "documentation": "<p>The request uses too many filters or too many filter values.</p>",
    "exception": true
  },
  "FilterList": {
    "type": "list",
    "member": { "shape": "Filter" }
  },
  "FilterName": { "type": "string" },
  "FilterValue": { "type": "string" },
  "FilterValues": {
    "type": "list",
    "member": { "shape": "FilterValue" }
  },
  "Filters": {
    "type": "list",
    "member": { "shape": "Filter" }
  },
  "GetAccessTokenRequest": {
    "type": "structure",
    "required": ["Token"],
    "members": {
      "Token": {
        "shape": "TokenString",
        "documentation": "<p>Refresh token, encoded as a JWT token.</p>"
      },
      "TokenProperties": {
        "shape": "MaxSize3StringList",
        "documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
      }
    }
  },
  "GetAccessTokenResponse": {
    "type": "structure",
    "members": {
      "AccessToken": {
        "shape": "TokenString",
        "documentation": "<p>Temporary access token.</p>"
      }
    }
  },
  "GetGrantRequest": {
    "type": "structure",
    "required": ["GrantArn"],
    "members": {
      "GrantArn": {
        "shape": "Arn",
        "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    }
  }
}

```

```

    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{
      "shape":"Grant",
      "documentation":"<p>Grant details.</p>"
    }
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension for which the licenses are counted.</p>"
    }
  }
}

```

```

},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of available licenses.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses assigned to resources.</p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>License configuration status.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the owner of the license configuration.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries of the licenses consumed by resources.</p>"
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":"<p>Summaries of the managed resources.</p>"
},
"Tags":{
  "shape":"TagList",
  "documentation":"<p>Tags for the license configuration.</p>"
},
"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":"<p>Product information.</p>"
},
"AutomatedDiscoveryInformation":{
  "shape":"AutomatedDiscoveryInformation",
  "documentation":"<p>Automated discovery information.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
}

```

```

    }
  }
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task to retrieve information on.</p>"
    }
  }
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted from.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted to.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for the conversion task.</p>"
    },
    "Status":{
      "shape":"LicenseConversionTaskStatus",
      "documentation":"<p>Status of the license type conversion task.</p>"
    },
    "StartTime":{
      "shape":"DateTime",
      "documentation":"<p>Time at which the license type conversion task was started .</p>"
    },
    "LicenseConversionTime":{
      "shape":"DateTime",
      "documentation":"<p>Amount of time to complete the license type conversion.</p>"
    }
  }
}

```

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    },
    "EndTime":{
      "shape":"DateTime",
      "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
    }
  }
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    }
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{
      "shape":"ReportGenerator",
      "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
    }
  }
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{
      "shape":"License",
      "documentation":"<p>License details.</p>"
    }
  }
}

```

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    }
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{
      "shape":"LicenseUsage",
      "documentation":"<p>License usage details.</p>"
    }
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",

      "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
    },
    "SnsTopicArn":{
      "shape":"String",
      "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
    },
    "OrganizationConfiguration":{
      "shape":"OrganizationConfiguration",
      "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
    },
    "EnableCrossAccountsDiscovery":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
    }
  }
}

```

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    },
    "LicenseManagerResourceShareArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
    }
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "ParentArn":{
      "shape":"Arn",
      "documentation":"<p>Parent ARN.</p>"
    },
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>License ARN.</p>"
    },
    "GranteePrincipalArn":{
      "shape":"Arn",
      "documentation":"<p>The grantee principal ARN.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the grant.</p>"
    },
    "GrantStatus":{

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    "shape": "GrantStatus",
    "documentation": "<p>Grant status.</p>"
  },
  "StatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>Grant status reason.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>Grant version.</p>"
  },
  "GrantedOperations": {
    "shape": "AllowedOperationList",
    "documentation": "<p>Granted operations.</p>"
  },
  "Options": {
    "shape": "Options",
    "documentation": "<p>The options specified for the grant.</p>"
  }
},
"documentation": "<p>Describes a grant.</p>"
},
"GrantList": {
  "type": "list",
  "member": { "shape": "Grant" }
},
"GrantStatus": {
  "type": "string",
  "enum": [
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
},

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```

"LicenseName":{
  "shape":"String",
  "documentation":"<p>License name.</p>"
},
"ProductName":{
  "shape":"String",
  "documentation":"<p>Product name.</p>"
},
"ProductSKU":{
  "shape":"String",
  "documentation":"<p>Product SKU.</p>"
},
"Issuer":{
  "shape":"IssuerDetails",
  "documentation":"<p>Granted license issuer.</p>"
},
"HomeRegion":{
  "shape":"String",
  "documentation":"<p>Home Region of the granted license.</p>"
},
"Status":{
  "shape":"LicenseStatus",
  "documentation":"<p>Granted license status.</p>"
},
"Validity":{
  "shape":"DatetimeRange",
  "documentation":"<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
},
"Beneficiary":{
  "shape":"String",
  "documentation":"<p>Granted license beneficiary.</p>"
},
"Entitlements":{
  "shape":"EntitlementList",
  "documentation":"<p>License entitlements.</p>"
},
"ConsumptionConfiguration":{
  "shape":"ConsumptionConfiguration",
  "documentation":"<p>Configuration for consumption of the license.</p>"
},
"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Granted license metadata.</p>"
},
"CreateTime":{
  "shape":"ISO8601DateTime",
  "documentation":"<p>Creation time of the granted license.</p>"

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    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Version of the granted license.</p>"
    },
    "ReceivedMetadata":{
      "shape":"ReceivedMetadata",
      "documentation":"<p>Granted license received metadata.</p>"
    }
  },
  "documentation":"<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]||1-2)[0-9]T(2[0-3]||0-1)[0-9]:([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]||0-1)[0-9]):[0-5][0-9]+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>One or more parameter values are not valid.</p>",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
"exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
}

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"members":{
  "Name":{
    "shape":"String",
    "documentation":"<p>Name of the filter.</p>"
  },
  "Condition":{
    "shape":"InventoryFilterCondition",
    "documentation":"<p>Condition of the filter.</p>"
  },
  "Value":{
    "shape":"String",
    "documentation":"<p>Value of the filter.</p>"
  }
},
"documentation":"<p>An inventory filter.</p>"
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    }
  },
  "documentation":"<p>Details about the issuer of a license.</p>"
},
"IssuerDetails":{
  "type":"structure",
  "members":{

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```

    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    },
    "KeyFingerprint":{
      "shape":"String",
      "documentation":"<p>Issuer key fingerprint.</p>"
    }
  },
  "documentation":"<p>Details associated with the issuer of a license.</p>"
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
    "Validity":{

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```

    "shape": "DatetimeRange",
    "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  },
  "Beneficiary": {
    "shape": "String",
    "documentation": "<p>License beneficiary.</p>"
  },
  "Entitlements": {
    "shape": "EntitlementList",
    "documentation": "<p>License entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license.</p>"
  },
  "LicenseMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>License metadata.</p>"
  },
  "CreateTime": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>License creation time.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>License version.</p>"
  }
},
"documentation": "<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "shape": "String",
      "documentation": "<p>Unique ID of the license configuration.</p>"
    },
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name": {
      "shape": "String",
      "documentation": "<p>Name of the license configuration.</p>"
    },
    "Description": {
      "shape": "String",
      "documentation": "<p>Description of the license configuration.</p>"
    }
  }
}

```

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},
"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension to use to track the license inventory.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses managed by the license configuration.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Number of available licenses as a hard limit.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses consumed. </p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>Status of the license configuration.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the license
configuration's owner.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries for licenses consumed by various resources.</p>"
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":"<p>Summaries for managed resources.</p>"
},
"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":"<p>Product information.</p>"
},
"AutomatedDiscoveryInformation":{
  "shape":"AutomatedDiscoveryInformation",

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    "documentation": "<p>Automated discovery information.</p>"
  }
},
"documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with
a host), and the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of server resource.</p>"
    },
    "ResourceOwnerId": {
      "shape": "String",
      "documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
    },
    "AssociationTime": {
      "shape": "DateTime",
      "documentation": "<p>Time when the license configuration was associated with the resource.</p>"
    },
    "AmiAssociationScope": {
      "shape": "String",
      "documentation": "<p>Scope of
AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation": "<p>Describes an association with a license configuration.</p>"
},
"LicenseConfigurationAssociations": {
  "type": "list",
  "member": { "shape": "LicenseConfigurationAssociation" }
},
"LicenseConfigurationStatus": {
  "type": "string",
  "enum": [
    "AVAILABLE",
    "DISABLED"
  ]
},

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"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of the resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of
the account that owns the resource.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with the resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{
      "shape":"UsageOperation",
      "documentation":"<p>The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample

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data: usage operation by platform </a> </p>"
  }
},
"documentation": "<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTask": {
  "type": "structure",
  "members": {
    "LicenseConversionTaskId": {
      "shape": "LicenseConversionTaskId",
      "documentation": "<p>The ID of the license type conversion task.</p>"
    },
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type
conversion task.</p>"
    },
    "SourceLicenseContext": {
      "shape": "LicenseConversionContext",
      "documentation": "<p>Information about the license type this conversion task converted from.</p>"
    },
    "DestinationLicenseContext": {
      "shape": "LicenseConversionContext",
      "documentation": "<p>Information about the license type this conversion task converted to.</p>"
    },
    "Status": {
      "shape": "LicenseConversionTaskStatus",
      "documentation": "<p>The status of the conversion task.</p>"
    },
    "StatusMessage": {
      "shape": "String",
      "documentation": "<p>The status message for the conversion task.</p>"
    },
    "StartTime": {
      "shape": "DateTime",
      "documentation": "<p>The time the conversion task was started at.</p>"
    },
    "LicenseConversionTime": {
      "shape": "DateTime",
      "documentation": "<p>The time the usage operation value of the resource was changed.</p>"
    },
    "EndTime": {
      "shape": "DateTime",
      "documentation": "<p>The time the conversion task was completed.</p>"
    }
  }
},
"documentation": "<p>Information about a

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license type conversion task.</p>"
  },
  "LicenseConversionTaskId":{
    "type":"string",
    "max":50,
    "pattern":"^lct-[a-zA-Z0-9]*"
  },
  "LicenseConversionTaskStatus":{
    "type":"string",
    "enum":[
      "IN_PROGRESS",
      "SUCCEEDED",
      "FAILED"
    ]
  },
  "LicenseConversionTasks":{
    "type":"list",
    "member":{"shape":"LicenseConversionTask"}
  },
  "LicenseCountingType":{
    "type":"string",
    "enum":[
      "vCPU",
      "Instance",
      "Core",
      "Socket"
    ]
  },
  "LicenseDeletionStatus":{
    "type":"string",
    "enum":[
      "PENDING_DELETE",
      "DELETED"
    ]
  },
  "LicenseList":{
    "type":"list",
    "member":{"shape":"License"}
  },
  "LicenseOperationFailure":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      }
    }
  },

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"ResourceType":{
  "shape":"ResourceType",
  "documentation":"<p>Resource type.</p>"
},
"ErrorMessage":{
  "shape":"String",
  "documentation":"<p>Error message.</p>"
},
"FailureTime":{
  "shape":"DateTime",
  "documentation":"<p>Failure time.</p>"
},
"OperationName":{
  "shape":"String",
  "documentation":"<p>Name of the operation.</p>"
},
"ResourceOwnerId":{
  "shape":"String",
  "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
},
"OperationRequestedBy":{
  "shape":"String",
  "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
},
"MetadataList":{
  "shape":"MetadataList",
  "documentation":"<p>Reserved.</p>"
}
},
"documentation":"<p>Describes the failure of a license operation.</p>"
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  }
},

```

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"documentation": "<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications": {
  "type": "list",
  "member": { "shape": "LicenseSpecification" }
},
"LicenseStatus": {
  "type": "string",
  "enum": [
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage": {
  "type": "structure",
  "members": {
    "EntitlementUsages": {
      "shape": "EntitlementUsageList",
      "documentation": "<p>License entitlement usages.</p>"
    }
  }
},
"documentation": "<p>Describes the entitlement usage associated with a license.</p>"
},
"LicenseUsageException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception": true
},
"ListAssociationsForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>"
    }
  },
  "MaxResults": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum

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number of results to return in a single call.</p>"

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  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{
      "shape":"LicenseConfigurationAssociations",
      "documentation":"<p>Information about the associations for the license configuration.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results.
The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p>
<code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>"
    }
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  },
  "MaxResults":{
    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListDistributedGrantsResponse":{
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    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Distributed grant details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
  "members":{
    "LicenseOperationFailureList":{
      "shape":"LicenseOperationFailureList",
      "documentation":"<p>License configuration operations that failed.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{
      "shape":"StringList",
      "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
    }
  }
}

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    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted.
Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is
used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been
exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
    }
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{
      "shape":"LicenseConfigurations",
      "documentation":"<p>Information about the license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token
for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "Filters":{

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    }
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configurations associated with a resource.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },

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    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "ListLicenseVersionsResponse":{
    "type":"structure",
    "members":{
      "Licenses":{
        "shape":"LicenseList",
        "documentation":"<p>License details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names
(ARNs) of the licenses.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListLicensesResponse":{
    "type":"structure",
    "members":{
      "Licenses":{
        "shape":"LicenseList",

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    "documentation": "<p>License details.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li><p>
<code>ParentArn</code> </p> </li> <li><p> <code>GranteePrincipalArn</code> </p> </li> </ul>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "MaxResults": {
      "shape": "MaxSize100",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "type": "structure",
  "members": {
    "Grants": {
      "shape": "GrantList",
      "documentation": "<p>Lists the grants the organization has received.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsRequest": {
  "type": "structure",
  "members": {

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"GrantArns":{
  "shape":"ArnList",
  "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
},
"Filters":{
  "shape":"FilterList",
  "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li> <p>
<code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p>
<code>GranterAccountId</code> </p> </li> </ul>"
},
"NextToken":{
  "shape":"String",
  "documentation":"<p>Token for the next set of results.</p>"
},
"MaxResults":{
  "shape":"MaxSize100",
  "documentation":"<p>Maximum number of results to return in a single call.</p>"
}
}
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Received grant details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of
results.</p>"
    },
    "MaxResults":{

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    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"GrantedLicenseList",
      "documentation":"<p>Lists the licenses the organization has received.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the licenses.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code>
</p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p>
<code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"GrantedLicenseList",
      "documentation":"<p>Received license details.</p>"
    }
  }
}
}

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    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"InventoryFilterList",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p>
<ul>
<li><p><code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
</li>
<li><p><code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>
</li>
<li><p><code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p>
</li>
<li><p><code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>
</li>
<li><p><code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
</li>
<li><p><code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>
</li>
</ul>"
    }
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{
      "shape":"ResourceInventoryList",
      "documentation":"<p>Information about the resources.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}

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},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Information about the tags.</p>"
    }
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{
      "shape":"StringList",
      "documentation":"<p>Token IDs.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </li> </ul>"
    }
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of
results.</p>"
  },
  "MaxResults":{
    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{
      "shape":"TokenList",

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    "documentation": "<p>Received token details.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListUsageForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "Filters": {
      "shape": "Filters",
      "documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
    }
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationUsageList": {
      "shape": "LicenseConfigurationUsageList",
      "documentation": "<p>Information about the license configurations.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
}

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    }
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{"
  "type":"structure",
  "members":{"
    "ResourceType":{"
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{"
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{"
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{"
  "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{"
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{"
  "type":"structure",
  "members":{"
    "Name":{"
      "shape":"String",
      "documentation":"<p>The key name.</p>"
    },
    "Value":{"
      "shape":"String",
      "documentation":"<p>The value.</p>"
    }
  },
  "documentation":"<p>Describes key/value pairs.</p>"
},

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"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
  "exception":true
},
"Options":{
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{
      "shape":"ActivationOverrideBehavior",
      "documentation":"<p>An activation option for your grant that determines the behavior of activating a grant.
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace.
Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code>
parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an
<code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate
a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p> </dd> </dl>"
    }
  },
  "documentation":"<p>The options you can specify when you create a new version of a grant, such as activation
override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>"
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{
      "shape":"Boolean",
      "documentation":"<p>Enables Organizations integration.</p>"
    }
  },
}

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"documentation": "<p>Configuration information for Organizations.</p>"
},
"PrincipalArnList": {
  "type": "list",
  "member": { "shape": "Arn" },
  "max": 1,
  "min": 1
},
"ProductInformation": {
  "type": "structure",
  "required": [
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members": {
    "ResourceType": {
      "shape": "String",
      "documentation": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>"
    },
    "ProductInformationFilterList": {
      "shape": "ProductInformationFilterList",
      "documentation": "<p>A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. </p><p>Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.</p><p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p><ul><li><p><code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.</p></li><li><p><code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p></li><li><p><code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.</p></li><li><p><code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p></li><li><p><code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p></li><li><p><code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.</p></li><li><p><code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.</p></li><li><p><code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p></li></ul><p>The following filters and logical operators are supported when the resource type is <code>RDS</code>:</p><ul><li><p><code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible

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values are: `<code>oracle-ee</code>` | `<code>oracle-se</code>` | `<code>oracle-se1</code>` | `<code>oracle-se2</code>`.</p> <p> `<code>License Pack</code>` - The license pack. Logical operator is `<code>EQUALS</code>`. Possible values are: `<code>data guard</code>` | `<code>diagnostic pack sqlt</code>` | `<code>tuning pack sqlt</code>` | `<code>ols</code>` | `<code>olap</code>`.</p> "

```
    }
  },
  "documentation": "<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter": {
  "type": "structure",
  "required": [
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members": {
    "ProductInformationFilterName": {
      "shape": "String",
      "documentation": "<p>Filter name.</p>"
    },
    "ProductInformationFilterValue": {
      "shape": "StringList",
      "documentation": "<p>Filter value.</p>"
    },
    "ProductInformationFilterComparator": {
      "shape": "String",
      "documentation": "<p>Logical operator.</p>"
    }
  },
  "documentation": "<p>Describes product information filters.</p>"
},
"ProductInformationFilterList": {
  "type": "list",
  "member": { "shape": "ProductInformationFilter" }
},
"ProductInformationList": {
  "type": "list",
  "member": { "shape": "ProductInformation" }
},
"ProvisionalConfiguration": {
  "type": "structure",
  "required": ["MaxTimeToLiveInMinutes"],
  "members": {
    "MaxTimeToLiveInMinutes": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>"
    }
  },
  "documentation": "<p>Details about a provisional configuration.</p>"
}
```

```

},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{
      "shape":"ReceivedStatus",
      "documentation":"<p>Received status.</p>"
    },
    "ReceivedStatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>Received status reason.</p>"
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Allowed operations.</p>"
    }
  },
  "documentation":"<p>Metadata associated with received licenses and grants.</p>"
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>This is not the correct Region for the resource. Try again.</p>",

```

```

    "exception":true
  },
  "RejectGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    }
  },
  "RejectGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "RenewType":{
    "type":"string",
    "enum":[
      "None",
      "Weekly",
      "Monthly"
    ]
  },
  "ReportContext":{
    "type":"structure",
    "required":["licenseConfigurationArns"],
    "members":{
      "licenseConfigurationArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>"
      }
    }
  },
  "documentation":"<p>Details of the license configuration that this generator reports on.</p>"

```

```

},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{
      "shape":"Integer",
      "documentation":"<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
    },
    "period":{
      "shape":"ReportFrequencyType",
      "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
    }
  },
  "documentation":"<p>Details about how frequently reports are generated.</p>"
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{
      "shape":"String",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "ReportType":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports that are generated.</p>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>License configuration type for this generator.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Details about how frequently reports are generated.</p>"
    },
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    },
    "LastRunStatus":{

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```

    "shape": "String",
    "documentation": "<p>Status of the
last report generation attempt.</p>"
  },
  "LastRunFailureReason": {
    "shape": "String",
    "documentation": "<p>Failure message for the last report generation attempt.</p>"
  },
  "LastReportGenerationTime": {
    "shape": "String",
    "documentation": "<p>Time the last report was generated at.</p>"
  },
  "ReportCreatorAccount": {
    "shape": "String",
    "documentation": "<p>The Amazon Web Services account ID used to create the report generator.</p>"
  },
  "Description": {
    "shape": "String",
    "documentation": "<p>Description of the report generator.</p>"
  },
  "S3Location": {
    "shape": "S3Location",
    "documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
  },
  "CreateTime": {
    "shape": "String",
    "documentation": "<p>Time the report was created.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags associated with the report generator.</p>"
  }
},
"documentation": "<p>Describe the details of a report generator.</p>"
},
"ReportGeneratorList": {
  "type": "list",
  "member": { "shape": "ReportGenerator" }
},
"ReportGeneratorName": {
  "type": "string",
  "max": 100,
  "min": 1
},
"ReportType": {
  "type": "string",
  "enum": [

```

```

    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>ID of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "Platform":{
      "shape":"String",
      "documentation":"<p>Platform of the resource.</p>"
    },
    "PlatformVersion":{
      "shape":"String",
      "documentation":"<p>Platform version of the resource in the inventory.</p>"
    },
    "ResourceOwningAccountId":{
      "shape":"String",
      "documentation":"<p>ID of the account that owns the resource.</p>"
    }
  },
  "documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Your resource limits have been exceeded.</p>",

```

```

    "exception":true
  },
  "ResourceNotFoundException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The resource cannot be found.</p>",
    "exception":true
  },
  "ResourceType":{
    "type":"string",
    "enum":[
      "EC2_INSTANCE",
      "EC2_HOST",
      "EC2_AMI",
      "RDS",
      "SYSTEMS_MANAGER_MANAGED_INSTANCE"
    ]
  },
  "S3Location":{
    "type":"structure",
    "members":{
      "bucket":{
        "shape":"String",
        "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
      },
      "keyPrefix":{
        "shape":"String",
        "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
      }
    },
    "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
  },
  "ServerInternalException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The server experienced an internal error. Try again.</p>",
    "exception":true,
    "fault":true
  },
  "SignedToken":{
    "type":"string",
    "min":4096
  },
  "StatusReasonMessage":{

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```

    "type":"string",
    "max":400,
    "pattern":"[\\s\\S]+"
```

},
 "String":{"type":"string"},
 "StringList":{"
 "type":"list",
 "member":{"shape":"String"}
 },
 "Tag":{"
 "type":"structure",
 "members":{"
 "Key":{"
 "shape":"String",
 "documentation":"<p>Tag key.</p>"
 },
 "Value":{"
 "shape":"String",
 "documentation":"<p>Tag value.</p>"
 }
 }
 },
 "documentation":"<p>Details about a tag for a license configuration.</p>"
 },
 "TagKeyList":{"
 "type":"list",
 "member":{"shape":"String"}
 },
 "TagList":{"
 "type":"list",
 "member":{"shape":"Tag"}
 },
 "TagResourceRequest":{"
 "type":"structure",
 "required":[
 "ResourceArn",
 "Tags"
],
 "members":{"
 "ResourceArn":{"
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "Tags":{"
 "shape":"TagList",
 "documentation":"<p>One or more tags.</p>"
 }
 }
 }
}

```

"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"String",
      "documentation":"<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
    },
    "LicenseArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "ExpirationTime":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Token expiration time, in ISO8601-UTC format.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Data specified by the caller.</p>"
    },
    "RoleArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
    }
  },
  "documentation":"<p>Describes a token.</p>"
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,

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    "pattern": "\\S+"
  },
  "TokenType": {
    "type": "string",
    "enum": ["REFRESH_TOKEN"]
  },
  "UnsupportedDigitalSignatureMethodException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "documentation": "<p>The digital signature method is unsupported.
Try your request again.</p>",
    "exception": true
  },
  "UntagResourceRequest": {
    "type": "structure",
    "required": [
      "ResourceArn",
      "TagKeys"
    ],
    "members": {
      "ResourceArn": {
        "shape": "String",
        "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "TagKeys": {
        "shape": "TagKeyList",
        "documentation": "<p>Keys identifying the tags to remove.</p>"
      }
    }
  },
  "UntagResourceResponse": {
    "type": "structure",
    "members": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "required": ["LicenseConfigurationArn"],
    "members": {
      "LicenseConfigurationArn": {
        "shape": "String",
        "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "LicenseConfigurationStatus": {
        "shape": "LicenseConfigurationStatus",
        "documentation": "<p>New

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status of the license configuration.</p>"
  },
  "LicenseRules":{
    "shape":"StringList",
    "documentation":"<p>New license rule. The only rule that you can add after you create a license configuration
is licenseAffinityToHost.</p>"
  },
  "LicenseCount":{
    "shape":"BoxLong",
    "documentation":"<p>New number of licenses managed by the license configuration.</p>"
  },
  "LicenseCountHardLimit":{
    "shape":"BoxBoolean",
    "documentation":"<p>New hard limit of the number of available licenses.</p>"
  },
  "Name":{
    "shape":"String",
    "documentation":"<p>New name of the license configuration.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>New description of the license configuration.</p>"
  },
  "ProductInformationList":{
    "shape":"ProductInformationList",
    "documentation":"<p>New
product information.</p>"
  },
  "DisassociateWhenNotFound":{
    "shape":"BoxBoolean",
    "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
  }
}
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ]
}

```

```

    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
      },
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "Type":{
        "shape":"ReportTypeList",
        "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> </li> </ul>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>The report context.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Frequency by which reports are generated.</p>"
      },
      "ClientToken":{
        "shape":"ClientRequestToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      },
      "Description":{
        "shape":"String",
        "documentation":"<p>Description of the report generator.</p>"
      }
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",

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    "documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
  },
  "AddLicenseSpecifications": {
    "shape": "LicenseSpecifications",
    "documentation": "<p>ARNs of the license configurations to add.</p>"
  },
  "RemoveLicenseSpecifications": {
    "shape": "LicenseSpecifications",
    "documentation": "<p>ARNs of the license configurations to remove.</p>"
  }
},
"UpdateLicenseSpecificationsForResourceResponse": {
  "type": "structure",
  "members": {
  },
},
"UpdateServiceSettingsRequest": {
  "type": "structure",
  "members": {
    "S3BucketArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
    },
    "SnsTopicArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager
alerts.</p>"
    },
    "OrganizationConfiguration": {
      "shape": "OrganizationConfiguration",
      "documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
    },
    "EnableCrossAccountsDiscovery": {
      "shape": "BoxBoolean",
      "documentation": "<p>Activates cross-account discovery.</p>"
    }
  }
},
"UpdateServiceSettingsResponse": {
  "type": "structure",
  "members": {
  },
},
"UsageOperation": {
  "type": "string",
  "max": 50
}

```

```

},
"ValidationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}
},
"documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack
enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
        }
      }
    }
  ]
}

```

```

    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

```

```

"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"

  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
  }
},
"params": {
  "Region": "us-gov-east-1",
  "UseFIPS": true,
  "UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-gov-east-1",
  "UseFIPS": true,

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    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  }
}

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```

},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  }
}

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```

    },
    "params": {
      "Region": "us-isob-east-1",

      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation":
    "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {

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```

    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}
{
"testCases": [

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{
  "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.af-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "af-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-2.amazonaws.com"
    }
  },
  "params": {

```

```

    "Region": "ap-northeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-northeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-1",

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
  "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager.ap-southeast-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "ap-southeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation":
"\"For region ca-central-1 with FIPS disabled and DualStack disabled\",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ca-central-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "ca-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-central-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

    }
  },
  {
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint":
    {
      "url": "https://license-manager.eu-north-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-1.amazonaws.com"
    }
  },
  "params":
{
  "Region": "eu-west-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-2.amazonaws.com"
    }
  }
}

```

```

    }
  },
  "params": {
    "Region": "eu-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-west-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "me-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "sa-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},

```

```

{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-2.amazonaws.com"
    }
  },
}

```

```

"params": {
  "Region": "us-east-2",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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```

"expect":
{
  "endpoint": {
    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
  }
},
"params": {
  "Region": "us-west-2",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-east-1.api.aws"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": true,
  "UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-east-1.api.aws"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
  }
},
"params": {
  "Region": "cn-north-1",

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```

        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack":
false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
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{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
    "expect": {

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    }
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  "params": {
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    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

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```

},
{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
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    }
  },
  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
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  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
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  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
    }
  }
}

```

```

    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {

"endpoint": {
      "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
    }
  }
}

```

```

    }
  },
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{
  "Region": "us-isob-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {

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        "url": "https://example.com"
    }
},
"params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
}
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
    }
},
{

```

```

      "documentation": "Missing region",
      "expect": {
        "error": "Invalid Configuration: Missing Region"
      }
    }
  ],
  "version": "1.0"
}
AWS Signature Version 4 Test Suite
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```

```

{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager User Subscriptions",
    "serviceId": "License Manager User Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-user-subscriptions",
    "uid": "license-manager-user-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "AssociateUser": {
      "name": "AssociateUser",
      "http": {
        "method": "POST",
        "requestUri": "/user/AssociateUser",
        "responseCode": 200
      },
      "input": { "shape": "AssociateUserRequest" },
      "output": { "shape": "AssociateUserResponse" },
      "errors": [
        { "shape": "ServiceQuotaExceededException" },
        { "shape": "ConflictException" },
        { "shape": "ValidationException" },
        { "shape": "ThrottlingException" },
        { "shape": "InternalServerError" },
        { "shape": "ResourceNotFoundException" },
        { "shape": "AccessDeniedException" }
      ],
      "documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing

```

your monthly charges

```
    "idempotent":true
  },
  "CreateLicenseServerEndpoint":{
    "name":"CreateLicenseServerEndpoint",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/CreateLicenseServerEndpoint",
      "responseCode":200
    },
    "input":{"shape":"CreateLicenseServerEndpointRequest"},
    "output":{"shape":"CreateLicenseServerEndpointResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
    "idempotent":true
  },
  "DeleteLicenseServerEndpoint":{
    "name":"DeleteLicenseServerEndpoint",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/DeleteLicenseServerEndpoint",
      "responseCode":200
    },
    "input":{"shape":"DeleteLicenseServerEndpointRequest"},
    "output":{"shape":"DeleteLicenseServerEndpointResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
    "idempotent":true
  },
  "DeregisterIdentityProvider":{
    "name":"DeregisterIdentityProvider",
    "http":{
```

```

    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deregisters the Active Directory identity provider from License Manager user-based
subscriptions.</p>",
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},
  "output":{"shape":"DisassociateUserResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  }
}

```

```

    },
    "input":{"shape":"ListIdentityProvidersRequest"},
    "output":{"shape":"ListIdentityProvidersResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
  },
  "ListInstances":{
    "name":"ListInstances",
    "http":{
      "method":"POST",
      "requestUri":"/instance/ListInstances",
      "responseCode":200
    },
    "input":{"shape":"ListInstancesRequest"},
    "output":{"shape":"ListInstancesResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
  },
  "ListLicenseServerEndpoints":{
    "name":"ListLicenseServerEndpoints",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/ListLicenseServerEndpoints",
      "responseCode":200
    },
    "input":{"shape":"ListLicenseServerEndpointsRequest"},
    "output":{"shape":"ListLicenseServerEndpointsResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},

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```

    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>List the Remote Desktop Services (RDS) License Server endpoints </p>"
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the user-based subscription products available from an identity provider.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Returns the list of tags for the specified resource.</p>"
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },

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"input":{"shape":"ListUserAssociationsRequest"},
"output":{"shape":"ListUserAssociationsResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},
  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},

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```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Starts a product subscription for a user with the specified identity provider.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"
},
  "StopProductSubscription":{
    "name":"StopProductSubscription",
    "http":{
      "method":"POST",
      "requestUri":"/user/StopProductSubscription",
      "responseCode":200
    },
    "input":{"shape":"StopProductSubscriptionRequest"},
    "output":{"shape":"StopProductSubscriptionResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
  },
  "TagResource":{
    "name":"TagResource",

    "http":{
      "method":"PUT",
      "requestUri":"/tags/{ResourceArn}",
      "responseCode":200
    },
    "input":{"shape":"TagResourceRequest"},
    "output":{"shape":"TagResourceResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Adds tags to a resource.</p>",
    "idempotent":true
  },
}

```

```

"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Removes tags from a resource.</p>",
  "idempotent":true
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Updates additional product configuration settings for the registered identity
provider.</p>",
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>You don't have sufficient access to perform this action.</p>",
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{

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"ActiveDirectorySettings":{
  "shape":"ActiveDirectorySettings",
  "documentation":"<p>The <code>ActiveDirectorySettings</code> resource contains details about the Active
Directory, including network access details such as domain name and IP addresses, and the credential provider for
user administration.</p>"
},
"ActiveDirectoryType":{
  "shape":"ActiveDirectoryType",
  "documentation":"<p>The type of Active Directory either a self-managed Active Directory or an Amazon
Web Services Managed Active Directory.</p>"
},
"DirectoryId":{
  "shape":"Directory",
  "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
}
},
"documentation":"<p>Details about an Active Directory identity provider.</p>"
},
"ActiveDirectorySettings":{
  "type":"structure",
  "members":{
    "DomainCredentialsProvider":{
      "shape":"CredentialsProvider",

      "documentation":"<p>Points to the <code>CredentialsProvider</code> resource that contains information about
the credential provider for user administration.</p>"
    },
    "DomainIpv4List":{
      "shape":"ActiveDirectorySettingsDomainIpv4ListList",
      "documentation":"<p>A list of domain IPv4 addresses that are used for the Active Directory.</p>"
    },
    "DomainName":{
      "shape":"String",
      "documentation":"<p>The domain name for the Active Directory.</p>"
    },
    "DomainNetworkSettings":{
      "shape":"DomainNetworkSettings",
      "documentation":"<p>The <code>DomainNetworkSettings</code> resource contains an array of subnets that
apply for the Active Directory.</p>"
    }
  },
  "documentation":"<p>Contains network access and credential details that are needed for user administration in
the Active Directory.</p>"
},
"ActiveDirectorySettingsDomainIpv4ListList":{
  "type":"list",
  "member":{"shape":"IpV4"},

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    "max":2,
    "min":1
  },
  "ActiveDirectoryType":{
    "type":"string",
    "enum":[
      "SELF_MANAGED",
      "AWS_MANAGED"
    ]
  },
  "Arn":{
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]\\{1,510\\}/[a-zA-Z0-9-\\.]{1,510}$"
  },
  "AssociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{
        "shape":"String",
        "documentation":"<p>The domain name of the Active Directory that contains information for the user to associate.</p>"
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>The identity provider for the user.</p>"
      },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance that provides the user-based subscription.</p>"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply for the user association.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider.</p>"
      }
    }
  },
  "AssociateUserResponse":{

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"type":"structure",
"required":["InstanceUserSummary"],
"members":{
  "InstanceUserSummary":{
    "shape":"InstanceUserSummary",
    "documentation":"<p>Metadata that describes the associate user operation.</p>"
  }
}
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request couldn't be completed because it conflicted with the current state of the
resource.</p>",
  "exception":true,
  "fault":true
},
"CreateLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "IdentityProviderArn",
    "LicenseServerSettings"
  ],
  "members":{
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code>
resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-
managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity
details.</p>"
    },
    "LicenseServerSettings":{
      "shape":"LicenseServerSettings",
      "documentation":"<p>The <code>LicenseServerSettings</code> resource to create for the endpoint. The
settings include the type of license server and the Secrets Manager secret that enables administrators to add or
remove users associated with the license server.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the license server endpoint.</p>"
    }
  }
}

```

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    },
    "CreateLicenseServerEndpointResponse":{
      "type":"structure",
      "members":{
        "IdentityProviderArn":{
          "shape":"Arn",
          "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
        },
        "LicenseServerEndpointArn":{
          "shape":"Arn",
          "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
        }
      }
    },
    "CredentialsProvider":{
      "type":"structure",
      "members":{
        "SecretsManagerCredentialsProvider":{
          "shape":"SecretsManagerCredentialsProvider",
          "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
        }
      }
    },
    "documentation":"<p>Contains information about the credential provider for user
administration.</p>",
    "union":true
  },
  "DeleteLicenseServerEndpointRequest":{
    "type":"structure",
    "required":[
      "LicenseServerEndpointArn",
      "ServerType"
    ],
    "members":{
      "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> resource to delete.</p>"
      },
      "ServerType":{
        "shape":"ServerType",
        "documentation":"<p>The type of License Server that the delete request refers to.</p>"
      }
    }
  },
  "DeleteLicenseServerEndpointResponse":{
    "type":"structure",

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"members":{
  "LicenseServerEndpoint":{
    "shape":"LicenseServerEndpoint",
    "documentation":"<p>Shows details from the <code>LicenseServerEndpoint</code> resource that was
deleted.</p>"
  }
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
    },
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the identity provider to
deregister.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  },
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{
      "shape":"IdentityProviderSummary",
      "documentation":"<p>Metadata that describes the results
of an identity provider operation.</p>"
    }
  },
"Directory":{
  "type":"string",
  "pattern":"^(d|sd)-[0-9a-f]{10}$"
},
"DisassociateUserRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",

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    "documentation": "<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
  },
  "IdentityProvider": {
    "shape": "IdentityProvider",
    "documentation": "<p>An object that specifies details for the Active Directory identity provider.</p>"
  },
  "InstanceId": {
    "shape": "String",
    "documentation": "<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
  },
  "InstanceUserArn": {
    "shape": "Arn",
    "documentation": "<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
  },
  "Username": {
    "shape": "String",
    "documentation": "<p>The user name from the Active Directory identity provider for the user.</p>"
  }
}
},
"DisassociateUserResponse": {
  "type": "structure",
  "required": ["InstanceUserSummary"],
  "members": {
    "InstanceUserSummary": {
      "shape": "InstanceUserSummary",
      "documentation": "<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"DomainNetworkSettings": {
  "type": "structure",
  "required": ["Subnets"],
  "members": {
    "Subnets": {
      "shape": "DomainNetworkSettingsSubnetsList",
      "documentation": "<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
    }
  },
  "documentation": "<p>Contains network settings for the Active Directory domain.</p>"
},
"DomainNetworkSettingsSubnetsList": {
  "type": "list",
  "member": { "shape": "Subnet" },
  "min": 1
},

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```

"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{
      "shape":"String",
      "documentation":"<p>The name of an attribute to use as a filter.</p>"
    },
    "Operation":{
      "shape":"String",
      "documentation":"<p>The type of search (For example, eq, geq, leq)</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{
      "shape":"ActiveDirectoryIdentityProvider",
      "documentation":"<p>The <code>ActiveDirectoryIdentityProvider</code>
resource contains settings and other details about a specific Active Directory identity provider.</p>"
    }
  },
  "documentation":"<p>Refers to an identity provider.</p>",
  "union":true
},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{
      "shape":"String",
      "documentation":"<p>The failure message associated with an identity provider.</p>"
    }
  }
}

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    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The IdentityProvider resource contains information about an identity
provider.</p>"
    },
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The
name of the user-based subscription product.</p>"
    },
    "Settings":{
      "shape":"Settings",
      "documentation":"<p>The Settings resource contains details about the registered identity
providers product related configuration settings, such as the subnets to provision VPC endpoints.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of the identity provider.</p>"
    }
  },
  "documentation":"<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "LastStatusCheckDate":{
      "shape":"String",
      "documentation":"<p>The date of the last status check.</p>"
    },
    "Products":{

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    "shape": "StringList",
    "documentation": "<p>A list of provided user-based subscription products.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of an EC2 instance resource.</p>"
  },
  "StatusMessage": {
    "shape": "String",
    "documentation": "<p>The status message for an EC2 instance.</p>"
  }
},
"documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList": {
  "type": "list",
  "member": { "shape": "InstanceSummary" }
},
"InstanceUserSummary": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members": {
    "AssociationDate": {
      "shape": "String",
      "documentation": "<p>The date a user was associated with an EC2 instance.</p>"
    },
    "DisassociationDate": {
      "shape": "String",
      "documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
    },
    "Domain": {
      "shape": "String",
      "documentation": "<p>The domain name of the Active Directory that contains the user information for the product subscription.</p>"
    },
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>The <code>IdentityProvider</code> resource specifies details about the identity provider.</p>"
    },
    "InstanceId": {
      "shape": "String",

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```

    "documentation": "<p>The ID of the EC2 instance that provides user-based subscriptions.</p>"
  },
  "InstanceUserArn": {
    "shape": "Arn",
    "documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance user.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of a user associated with an EC2 instance.</p>"
  },
  "StatusMessage": {
    "shape": "String",
    "documentation": "<p>The status message for users of an EC2 instance.</p>"
  },
  "Username": {
    "shape": "String",
    "documentation": "<p>The user name from the identity provider for the user.</p>"
  }
},
"documentation": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList": {
  "type": "list",
  "member": { "shape": "InstanceUserSummary" }
},
"InternalServerError": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>An exception occurred with the service.</p>",
  "error": { "httpStatusCode": "500" },
  "exception": true,
  "fault": true
},
"IPv4": {
  "type": "string",
  "pattern": "^(?:25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
},
"LicenseServer": {
  "type": "structure",
  "members": {
    "HealthStatus": {
      "shape": "LicenseServerHealthStatus",
      "documentation": "<p>The health status of the RDS license server.</p>"
    }
  },
}

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    "Ipv4Address":{
      "shape":"String",
      "documentation":"<p>A list of domain IPv4 addresses that are used for the RDS license server.</p>"
    },
    "ProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server.</p>"
    }
  },
  "documentation":"<p>Information about a Remote Desktop Services (RDS) license server.</p>"
},
"LicenseServerEndpoint":{
  "type":"structure",
  "members":{
    "CreationTime":{
      "shape":"Timestamp",
      "documentation":"<p>The timestamp when License
Manager created the license server endpoint.</p>"
    },
    "IdentityProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint.</p>"
    },
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server.</p>"
    },
    "LicenseServerEndpointId":{
      "shape":"LicenseServerEndpointId",
      "documentation":"<p>The ID of the license server endpoint.</p>"
    },
    "LicenseServerEndpointProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server endpoint</p>"
    },
    "LicenseServers":{
      "shape":"LicenseServerList",
      "documentation":"<p>An array of <code>LicenseServer</code>
resources that represent the license servers that are accessed through this endpoint.</p>"
    },
    "ServerEndpoint":{
      "shape":"ServerEndpoint",
      "documentation":"<p>The <code>ServerEndpoint</code> resource contains the network address of the RDS
license server endpoint.</p>"
    },
    "ServerType":{

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    "shape": "ServerType",
    "documentation": "<p>The type of license server.</p>"
  },
  "StatusMessage": {
    "shape": "String",
    "documentation": "<p>The message associated with the provisioning status, if there is one.</p>"
  }
},
"documentation": "<p>Contains details about a network endpoint for a Remote Desktop Services (RDS) license server.</p>"
},
"LicenseServerEndpointId": { "type": "string" },
"LicenseServerEndpointList": {
  "type": "list",
  "member": { "shape": "LicenseServerEndpoint" }
},
"LicenseServerEndpointProvisioningStatus": {
  "type": "string",
  "enum": [
    "PROVISIONING",
    "PROVISIONING_FAILED",
    "PROVISIONED",
    "DELETING",
    "DELETION_FAILED",
    "DELETED"
  ]
},
"LicenseServerHealthStatus": {
  "type": "string",
  "enum": [
    "HEALTHY",
    "UNHEALTHY",
    "NOT_APPLICABLE"
  ]
},
"LicenseServerList": {
  "type": "list",
  "member": { "shape": "LicenseServer" }
},
"LicenseServerSettings": {
  "type": "structure",
  "required": [
    "ServerSettings",
    "ServerType"
  ]
},
"members": {
  "ServerSettings": {
    "shape": "ServerSettings",

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    "documentation": "<p>The <code>ServerSettings</code> resource contains the settings for your server.</p>"
  },
  "ServerType": {
    "shape": "ServerType",
    "documentation": "<p>The type of license server.</p>"
  }
},
"documentation": "<p>The settings to configure your license server.</p>"
},
"ListIdentityProvidersRequest": {
  "type": "structure",
  "members": {
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Product</p>
</li> <li> <p>DirectoryId</p> </li> </ul>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    }
  }
},
"ListIdentityProvidersResponse": {
  "type": "structure",
  "required": ["IdentityProviderSummaries"],
  "members": {
    "IdentityProviderSummaries": {
      "shape": "IdentityProviderSummaryList",
      "documentation": "<p>An array of <code>IdentityProviderSummary</code> resources that contain details
about the
Active Directory identity providers that meet the request criteria.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListInstancesRequest": {
  "type": "structure",

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"members":{
  "Filters":{
    "shape":"FilterList",
    "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>InstanceId</p> </li> </ul>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>The maximum number of results to return from a single request.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{
      "shape":"InstanceSummaryList",
      "documentation":"<p>An array of <code>InstanceSummary</code> resources that contain details about the
instances that provide user-based subscriptions and also meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListLicenseServerEndpointsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p>
<ul> <li> <p>IdentityProviderArn</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously

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truncated response.</p>"

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    }
  }
},
"ListLicenseServerEndpointsRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListLicenseServerEndpointsResponse":{
  "type":"structure",
  "members":{
    "LicenseServerEndpoints":{
      "shape":"LicenseServerEndpointList",
      "documentation":"<p>An array of <code>LicenseServerEndpoint</code> resources that contain detailed
information about the RDS License Servers that meet the request criteria.</p>"
    },

    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListProductSubscriptionsRequest":{
  "type":"structure",
  "required":["IdentityProvider"],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from
a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
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truncated response.</p>"

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  },
  "Product":{
    "shape":"String",
    "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
  }
}
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    },
    "ProductUserSummaries":{
      "shape":"ProductUserSummaryList",
      "documentation":"<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"ResourceArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource whose tags you want to
retrieve.</p>",
      "location":"uri",
      "locationName":"ResourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags for the specified resource.</p>"
    }
  }
},
"ListUserAssociationsRequest":{
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"type":"structure",
"required":[
  "IdentityProvider",
  "InstanceId"
],
"members":{
  "Filters":{
    "shape":"FilterList",
    "documentation":"<p>You
can use the following filters to streamline results:</p> <ul> <li> <p>Status</p> </li> <li> <p>Username</p> </li>
<li> <p>Domain</p> </li> </ul>"
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>An object that specifies details for the identity provider.</p>"
  },
  "InstanceId":{
    "shape":"String",
    "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>The maximum number of results to return from a single request.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
  }
}
},
"ListUserAssociationsResponse":{
  "type":"structure",
  "members":{
    "InstanceUserSummaries":{
      "shape":"InstanceUserSummaryList",
      "documentation":"<p>Metadata that describes the list user association operation.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ProductUserSummary":{
  "type":"structure",

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"required":[
  "IdentityProvider",
  "Product",
  "Status",
  "Username"
],
"members":{
  "Domain":{
    "shape":"String",
    "documentation":"<p>The domain name of the Active Directory that contains the user information for the
product subscription.</p>"
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>An object that specifies
details for the identity provider.</p>"
  },
  "Product":{
    "shape":"String",
    "documentation":"<p>The name of the user-based subscription product.</p>"
  },
  "ProductUserArn":{
    "shape":"Arn",
    "documentation":"<p>The Amazon Resource Name (ARN) for this product user.</p>"
  },
  "Status":{
    "shape":"String",
    "documentation":"<p>The status of a product for this user.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for a product for this user.</p>"
  },
  "SubscriptionEndDate":{
    "shape":"String",
    "documentation":"<p>The end date of a subscription.</p>"
  },
  "SubscriptionStartDate":{
    "shape":"String",
    "documentation":"<p>The start date of a subscription.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation":"<p>The user name
from the identity provider for this product user.</p>"
  }
},
"documentation":"<p>A summary of the user-based subscription products for a specific user.</p>"

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},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RdsSalSettings":{
  "type":"structure",
  "required":["RdsSalCredentialsProvider"],
  "members":{
    "RdsSalCredentialsProvider":{
      "shape":"CredentialsProvider",
      "documentation":"<p>The CredentialsProvider resource contains a reference to the credentials
provider that's used for RDS license server user administration.</p>"
    }
  },
  "documentation":"<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider to register.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Settings":{
      "shape":"Settings",
      "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
    }
  },
  "Tags":{
    "shape":"Tags",
    "documentation":"<p>The tags that apply to the identity provider's registration.</p>"
  }
}
},
"RegisterIdentityProviderResponse":{
  "type":"structure",

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"required":["IdentityProviderSummary"],
"members":{
  "IdentityProviderSummary":{
    "shape":"IdentityProviderSummary",
    "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
  }
},
"ResourceArn":{
  "type":"string",
  "pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The resource couldn't be found.</p>",
  "error":{
    "statusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecretsManagerCredentialsProvider":{
  "type":"structure",
  "members":{
    "SecretId":{
      "shape":"SecretsManagerCredentialsProviderSecretIdString",
      "documentation":"<p>The ID of the Secrets Manager secret that contains credentials.</p>"
    }
  },
  "documentation":"<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
},
"SecretsManagerCredentialsProviderSecretIdString":{
  "type":"string",
  "min":1
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServerEndpoint":{
  "type":"structure",

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"members":{
  "Endpoint":{
    "shape":"String",
    "documentation":"<p>The network address of the endpoint.</p>"
  }
},
"documentation":"<p>A network endpoint through which you can access one or more servers.</p>"
},
"ServerSettings":{
  "type":"structure",
  "members":{
    "RdsSalSettings":{
      "shape":"RdsSalSettings",
      "documentation":"<p>The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server.</p>"
    }
  },
  "documentation":"<p>Contains settings for a specific server.</p>",
  "union":true
},
"ServerType":{
  "type":"string",
  "enum":["RDS_SAL"]
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request failed because a service quota is exceeded.</p>",
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":["SecurityGroupId",
"Subnets"
],
  "members":{
    "SecurityGroupId":{
      "shape":"SecurityGroup",
      "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers.</p>"
    },
    "Subnets":{
      "shape":"SettingsSubnetsList",
      "documentation":"<p>The subnets defined for the registered identity provider.</p>"
    }
  }
}

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    }
  },
  "documentation": "<p>The registered identity providers
product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID
that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC.</p>"
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation": "<p>The domain name of the Active Directory that contains the user for whom to start the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation": "<p>The
name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  },
  "Tags":{
    "shape":"Tags",
    "documentation": "<p>The tags that apply to the product subscription.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation": "<p>The user name from the identity provider of the user.</p>"
  }
}
},
"StartProductSubscriptionResponse":{
  "type":"structure",

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"required":["ProductUserSummary"],
"members":{
  "ProductUserSummary":{
    "shape":"ProductUserSummary",
    "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
  }
}
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to stop the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "ProductUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the product user.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider for the user.</p>"
    }
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{
      "shape":"ProductUserSummary",
      "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
    }
  }
},
"String":{"type":"string"},
"StringList":{

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    "type":"list",
    "member":{"shape":"String"}
  },
  "Subnet":{
    "type":"string",
    "pattern":"^subnet-[a-z0-9]{8,17}"
  },
  "Subnets":{
    "type":"list",
    "member":{"shape":"Subnet"}
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "Tags"
    ],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags to apply to the specified resource.</p>"
      }
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,

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    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
    "exception":true
  },
  "Timestamp":{"type":"timestamp"},
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "TagKeys"
    ],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":"<p>The Amazon
Resource Name (ARN) of the resource that you want to remove tags from.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "TagKeys":{
        "shape":"TagKeyList",
        "documentation":"<p>The tag keys to remove from the resource.</p>",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateIdentityProviderSettingsRequest":{
    "type":"structure",
    "required":["UpdateSettings"],
    "members":{
      "IdentityProvider":{"shape":"IdentityProvider"},
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider to update.</p>"
      }
    },
  },

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    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code>
| <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
<code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "UpdateSettings":{
      "shape":"UpdateSettings",
      "documentation":"<p>Updates the registered identity providers product related configuration settings. You can
update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to
add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  },
  "UpdateIdentityProviderSettingsResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
    }
  },
  "UpdateSettings":{
    "type":"structure",
    "required":[
      "AddSubnets",
      "RemoveSubnets"
    ],
    "members":{
      "AddSubnets":{
        "shape":"Subnets",
        "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
      },
      "RemoveSubnets":{
        "shape":"Subnets",
        "documentation":"<p>The ID of one or more subnets to remove.</p>"
      },
      "SecurityGroupId":{
        "shape":"SecurityGroup",
        "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoints for activation servers.</p>"
      }
    }
  },
  "documentation":"<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
},

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"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>A parameter
is not valid.</p>",
  "exception":true
}
},
"documentation":"<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {

```

```

"conditions": [
  {
    "fn": "isSet",
    "argv": [
      {
        "ref": "Endpoint"
      }
    ]
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
      },
      {
        "conditions": [],
        "endpoint": {
          "url": {

```

```

        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
"type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
      "rules": [
        {
          "conditions": [
            {

```

```

"fn": "aws.partition",
      "argv": [
        {
          "ref": "Region"
        }
      ],
      "assign": "PartitionResult"
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [

```

```

        {
            "ref": "UseFIPS"
        },
        true
    ]
},

{
    "fn": "booleanEquals",
    "argv": [
        {
            "ref": "UseDualStack"
        },
        true
    ]
}
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
"fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ],
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
"fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ]
    }
]

```

```

        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [],
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ],
    "type": "tree"
  }
],
"type": "tree"
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ]
}

```

```

    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        true
      }
    ],
    "rules": [
      {
        "conditions": [],
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ],
        "type": "tree"
      }
    ],
    "type": "tree"
  },
  {
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
  }
],

```

```

        "type": "tree"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "rules": [

```

```

        "type": "endpoint"
      }
    ],
    "type": "tree"
  }
],
"type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},

        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  "type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
],
"type": "tree"
}

```

```

]
}
{
"pagination": {
  "ListAssociationsForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationAssociations"
  },
  "ListLicenseConfigurations": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurations"
  },
  "ListLicenseSpecificationsForResource": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseSpecifications"
  },
  "ListResourceInventory": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "ResourceInventoryList"
  },
  "ListUsageForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationUsageList"
  }
}
}
{
"pagination": {
  "ListLinuxSubscriptionInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "Instances"
  },
  "ListLinuxSubscriptions": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",

```

```

    "result_key": "Subscriptions"
  },
  "ListRegisteredSubscriptionProviders": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "RegisteredSubscriptionProviders"
  }
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "DeregisterSubscriptionProvider": {
      "name": "DeregisterSubscriptionProvider",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/DeregisterSubscriptionProvider",
        "responseCode": 200
      },
      "input": { "shape": "DeregisterSubscriptionProviderRequest" },
      "output": { "shape": "DeregisterSubscriptionProviderResponse" },
      "errors": [
        { "shape": "InternalServerError" },
        { "shape": "ResourceNotFoundException" },
        { "shape": "ThrottlingException" },
        { "shape": "ValidationException" }
      ],
      "documentation": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL)
subscriptions registered to your account.</p>",
      "idempotent": true
    },
    "GetRegisteredSubscriptionProvider": {
      "name": "GetRegisteredSubscriptionProvider",
      "http": {

```

```

    "method":"POST",
    "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your
account.</p>",
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions service settings for your account.</p>",
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux

```

```

subscriptions.<p>",
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
  "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "idempotent":true
},
"ListRegisteredSubscriptionProviders":{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200
  },
  "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
  "idempotent":true
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},

```

```

"errors":[

{"shape":"InternalServerError"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":"<p>List the metadata tags that are assigned to the specified Amazon Web Services
resource.</p>"
},
"RegisterSubscriptionProvider":{
"name":"RegisterSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/RegisterSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"RegisterSubscriptionProviderRequest"},
"output":{"shape":"RegisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerError"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":"<p>Register the supported third-party subscription provider for your Bring Your Own License
(BYOL) subscription.</p>",
"idempotent":true
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"PUT",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InternalServerError"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":"<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
"idempotent":true
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"DELETE",

```

```

    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Remove one or more metadata tag from the specified Amazon Web Services
resource.</p>",
  "idempotent":true
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Updates the service settings for Linux subscriptions.</p>",
  "idempotent":true
}
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{

```

```

    "SubscriptionProviderArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the subscription provider resource to
deregister.</p>"
    }
  },
  "DeregisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>The type of name to filter by.</p>"
      },
      "Operator":{
        "shape":"Operator",
        "documentation":"<p>An operator for filtering results.</p>"
      },
      "Values":{
        "shape":"StringList",
        "documentation":"<p>One or more values for the name to filter by.</p>"
      }
    },
    "documentation":"<p>A filter object that is used to return more specific results from a describe operation. Filters
can be used to match a set of resources by specific criteria.</p>"
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetRegisteredSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{
      "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details
for.</p>"
      }
    }
  },
  "GetRegisteredSubscriptionProviderResponse":{
    "type":"structure",

```

```

"members":{
  "LastSuccessfulDataRetrievalTime":{
    "shape":"String",
    "documentation":"<p>The timestamp from the last time License Manager retrieved subscription details from
your registered third-party Linux subscription provider.</p>"
  },
  "SecretArn":{
    "shape":"SecretArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets
Manager for the BYOL registration resource specified in the request.</p>"
  },

  "SubscriptionProviderArn":{
    "shape":"SubscriptionProviderArn",
    "documentation":"<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in
the request.</p>"
  },
  "SubscriptionProviderSource":{
    "shape":"SubscriptionProviderSource",
    "documentation":"<p>The subscription provider for the BYOL registration resource specified in the
request.</p>"
  },
  "SubscriptionProviderStatus":{
    "shape":"SubscriptionProviderStatus",
    "documentation":"<p>The status of the Linux subscription provider access token from the last successful
subscription data request.</p>"
  },
  "SubscriptionProviderStatusMessage":{
    "shape":"String",
    "documentation":"<p>The detailed message from your subscription provider token status.</p>"
  }
}
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{
      "shape":"StringList",
      "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",

```

```

    "documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscoverySettings": {
    "shape": "LinuxSubscriptionsDiscoverySettings",
    "documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
  },
  "Status": {
    "shape": "Status",
    "documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
  },
  "StatusMessage": {
    "shape": "StringMap",
    "documentation": "<p>A
message which details the Linux subscriptions service settings current status.</p>"
  }
},
"Instance": {
  "type": "structure",
  "members": {
    "AccountID": {
      "shape": "String",
      "documentation": "<p>The account ID which owns the instance.</p>"
    },
    "AmiId": {
      "shape": "String",
      "documentation": "<p>The AMI ID used to launch the instance.</p>"
    },
    "DualSubscription": {
      "shape": "String",
      "documentation": "<p>Indicates that you have two different license subscriptions for the same software on your
instance.</p>"
    },
    "InstanceID": {
      "shape": "String",
      "documentation": "<p>The instance ID of the resource.</p>"
    },
    "InstanceType": {
      "shape": "String",
      "documentation": "<p>The instance type of the resource.</p>"
    },
    "LastUpdatedTime": {
      "shape": "String",
      "documentation": "<p>The
time in which the last discovery updated the instance details.</p>"
    },
    "OsVersion": {

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```

    "shape": "String",
    "documentation": "<p>The operating system software version that runs on your instance.</p>"
  },
  "ProductCode": {
    "shape": "ProductCodeList",
    "documentation": "<p>The product code for the instance. For more information, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
  },
  "Region": {
    "shape": "String",
    "documentation": "<p>The Region the instance is running in.</p>"
  },
  "RegisteredWithSubscriptionProvider": {
    "shape": "String",
    "documentation": "<p>Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of the instance.</p>"
  },
  "SubscriptionName": {
    "shape": "String",
    "documentation": "<p>The name of the license subscription that the instance uses.</p>"
  },
  "SubscriptionProviderCreateTime": {
    "shape": "String",
    "documentation": "<p>The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses.</p>"
  },
  "SubscriptionProviderUpdateTime": {
    "shape": "String",
    "documentation": "<p>The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider.</p>"
  },
  "UsageOperation": {
    "shape": "String",
    "documentation": "<p>The usage operation of the instance. For more information, see For more information, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\\">Usage operation values</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
},
"InstanceList": {
  "type": "list",

```

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"member":{"shape":"Instance"}
},
"InternalServerError":{"
"type":"structure",
"members":{"
"message":{"shape":"String"}
},
"documentation":"<p>An exception occurred with the service.</p>",
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{"
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{"
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{"
"OrganizationIntegration":{"
"shape":"OrganizationIntegration",
"documentation":"<p>Details
if you have enabled resource discovery across your accounts in Organizations.</p>"
},
"SourceRegions":{"
"shape":"StringList",
"documentation":"<p>The Regions in which to discover data for Linux subscriptions.</p>"
}
},
"documentation":"<p>Lists the settings defined for discovering Linux subscriptions.</p>"
},
"ListLinuxSubscriptionInstancesRequest":{"
"type":"structure",
"members":{"
"Filters":{"
"shape":"FilterList",
"documentation":"<p>An array of structures that you can use to filter the results by your specified criteria. For
example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code>
operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-
west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key
to streamline results:</p>"
}
}
}

```

```

<ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p>
<code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p>
<code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p>
<code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p>
<code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following
<code>Operator</code> values to define the behavior of the filter:</p> <ul> <li> <p> <code>contains</code> </p>
</li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>

```

```

    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
      "documentation":"<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
    }
  },
  "documentation":"<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{
      "shape":"InstanceList",
      "documentation":"<p>An array that contains instance objects.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of

```

`Subscription` with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.

The valid names for this filter are:

- `Subscription`

The valid Operators for this filter are:

- `contains`
- `equals`
- `Notequal`

```
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"The maximum items to return in a request."
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionsRequestNextTokenString",
      "documentation":"A token to specify where
to start paginating. This is the nextToken from a previously truncated response."
    }
  },
  "documentation":"NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases."
},
"ListLinuxSubscriptionsRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects."
    },
    "Subscriptions":{
      "shape":"SubscriptionList",
      "documentation":"An array that contains subscription objects."
    }
  }
},
"ListRegisteredSubscriptionProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
      "documentation":"The maximum items to return in a request."
    },
    "NextToken":{
      "shape":"String",
```

```

    "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
  },
  "SubscriptionProviderSources": {
    "shape": "SubscriptionProviderSourceList",
    "documentation": "<p>To filter your results, specify which subscription providers to return in the list.</p>"
  }
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
  "type": "integer",
  "box": true,
  "max": 100,
  "min": 1
},
"ListRegisteredSubscriptionProvidersResponse": {
  "type": "structure",
  "members": {
    "NextToken": {
      "shape": "String",
      "documentation": "<p>The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
    },
    "RegisteredSubscriptionProviders": {
      "shape": "RegisteredSubscriptionProviderList",
      "documentation": "<p>The list of BYOL registration resources that fit the criteria you specified in the request.</p>"
    }
  }
},
"ListTagsForResourceRequest": {
  "type": "structure",
  "required": ["resourceArn"],
  "members": {
    "resourceArn": {
      "shape": "SubscriptionProviderArn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the resource for which to list metadata tags.</p>",
      "location": "uri",
      "locationName": "resourceArn"
    }
  }
},
"ListTagsForResourceResponse": {
  "type": "structure",
  "members": {
    "tags": {

```

```

    "shape": "Tags",

    "documentation": "<p>The metadata tags for the requested resource.</p>"
  }
}
},
"Operator": {
  "type": "string",
  "enum": [
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max": 20,
  "min": 1
},
"OrganizationIntegration": {
  "type": "string",
  "enum": [
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList": {
  "type": "list",
  "member": { "shape": "String" }
},
"RegisterSubscriptionProviderRequest": {
  "type": "structure",
  "required": [
    "SecretArn",
    "SubscriptionProviderSource"
  ],
  "members": {
    "SecretArn": {
      "shape": "SecretArn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>"
    },
    "SubscriptionProviderSource": {
      "shape": "SubscriptionProviderSource",
      "documentation": "<p>The supported Linux subscription provider to register.</p>"
    }
  },
  "Tags": {
    "shape": "Tags",
    "documentation": "<p>The metadata tags to assign to your registered Linux subscription provider resource.</p>"
  }
}

```

```

    }
  }
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>The Linux subscription provider that you registered.</p>"
    },
    "SubscriptionProviderStatus":{
      "shape":"SubscriptionProviderStatus",
      "documentation":"<p>Indicates the status of the registration action for
the Linux subscription provider that you requested.</p>"
    }
  }
},
"RegisteredSubscriptionProvider":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{
      "shape":"String",
      "documentation":"<p>The timestamp from the last time that License Manager accessed third-party
subscription data for your account from your registered Linux subscription provider.</p>"
    },
    "SecretArn":{
      "shape":"SecretArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your
registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"
    },
    "SubscriptionProviderArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>A supported third-party Linux subscription provider. License Manager currently
supports Red Hat subscriptions.</p>"
    },
    "SubscriptionProviderStatus":{
      "shape":"SubscriptionProviderStatus",

```

"documentation": "<p>Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token.</p>"

},

"SubscriptionProviderStatusMessage":{

"shape":"String",

"documentation": "<p>A detailed message that's associated with your BYOL subscription provider token status.</p>"

}

},

"documentation": "<p>A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider.</p>"

},

"RegisteredSubscriptionProviderList":{

"type":"list",

"member":{"shape":"RegisteredSubscriptionProvider"}

},

"ResourceNotFoundException":{

"type":"structure",

"members":{

"message":{"shape":"String"}

},

"documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",

"exception":true

},

"SecretArn":{

"type":"string",

"pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}\$"

},

"Status":{

"type":"string",

"enum":[

"InProgress",

"Completed",

"Successful",

"Failed"

]

},

"String":{"type":"string"},

"StringList":{

"type":"list",

"member":{"shape":"StringListMemberString"},

"max":100,

"min":1

},

"StringListMemberString":{

```

    "type":"string",
    "max":100,
    "min":1
  },
  "StringMap":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"}
  },
  "Subscription":{
    "type":"structure",
    "members":{
      "InstanceCount":{
        "shape":"BoxLong",
        "documentation":"<p>The total amount of running instances using this subscription.</p>"
      },
      "Name":{
        "shape":"String",
        "documentation":"<p>The name of the subscription.</p>"
      },
      "Type":{
        "shape":"String",
        "documentation":"<p>The type of subscription. The type can be subscription-included with Amazon EC2,
Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain
subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon
EC2 or BYOS.</p>"
      }
    },
    "documentation":"<p>An object which details a discovered Linux subscription.</p>"
  },
  "SubscriptionList":{
    "type":"list",
    "member":{"shape":"Subscription"}
  },
  "SubscriptionProviderArn":{
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-
z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource":{
    "type":"string",
    "enum":["RedHat"]
  },
  "SubscriptionProviderSourceList":{
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
  },
  "SubscriptionProviderStatus":{

```

```

    "type":"string",
    "enum":[
      "ACTIVE",
      "INVALID",
      "PENDING"
    ]
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tags"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon
Web Services resource to which to add the specified metadata tags.</p>",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tags":{
        "shape":"Tags",
        "documentation":"<p>The metadata tags to assign to the Amazon Web Services resource. Tags are formatted
as key value pairs.</p>"
      }
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },

```

```

"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request was denied due to request throttling.</p>",
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tagKeys"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove
the metadata tags from.</p>",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tagKeys":{
      "shape":"TagKeyList",
      "documentation":"<p>A list of metadata tag keys to remove from the requested resource.</p>",
      "location":"querystring",
      "locationName":"tagKeys"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{
      "shape":"Boolean",
      "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you
allow updates, you can aggregate
Linux subscription data in more than one home Region.</p>"
    }
  },

```

```

"LinuxSubscriptionsDiscovery":{
  "shape":"LinuxSubscriptionsDiscovery",
  "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
},
"LinuxSubscriptionsDiscoverySettings":{
  "shape":"LinuxSubscriptionsDiscoverySettings",
  "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
}
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{
      "shape":"StringList",
      "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",
      "documentation":"<p>Lists
if discovery has been enabled for Linux subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscoverySettings":{
      "shape":"LinuxSubscriptionsDiscoverySettings",
      "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    },
    "Status":{
      "shape":"Status",
      "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
    },
    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A message which details the Linux subscriptions service settings current status.</p>"
    }
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}

```

```
},
"documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on
running Amazon EC2 instances.</p>"
}
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
  "version": "1.0",
  "examples": {
  }
}
```

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```
{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
    "ListInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceSummaries"
    },
    "ListProductSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "ProductUserSummaries"
    },
    "ListUserAssociations": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
```

```
"result_key": "InstanceUserSummaries"
},
"ListLicenseServerEndpoints": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "LicenseServerEndpoints"
}
}
}
```

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```

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```

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```

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```

```

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        ]
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    ]
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}
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    "type": "error"
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```

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```

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```

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"UseDualStack": false
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```

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```

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  "params": {
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```

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  "UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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```

```

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    }
},
{
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    "expect": {
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```

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    }
},
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    "UseDualStack": false
}
},
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        }
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        "UseFIPS": false,
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        "UseFIPS": false,
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    }
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```

```

{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
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  }
},
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  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect":
{
  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
  "params": {
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    "UseFIPS": true,
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    "Endpoint": "https://example.com"
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  "expect": {
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  },
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    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
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  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
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],
"version": "1.0"
}

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1.229 boto3 1.37.25

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1.230 click-plugins 1.1.1

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1.236 moment-timezone 0.5.48

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1.238 exceptiongroup 1.2.2

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1.239 vine 5.1.0

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1.240 react-virtualized 9.22.6

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1.243 wolfy87-eventemitter 5.2.9

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1.244 immutability-helper 3.1.1

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1.245 rsa 4.9.1

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1.246 googleapis-common-protos 1.70.0

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1.255 importlib-metadata 8.7.0

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1.256 tornado 6.4.2

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1.258 azure-identity 1.19.0

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1.259 rpds-py 0.24.0

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1.260 simplejson 3.20.1

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1.262 python-setuptools 78.1.1

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The code contained in this directory was automatically generated using the following command:

```
python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins  
setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t  
distutils=setuptools/config/distutils.schema.json
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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`fastjsonschema`

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
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1.272 rpds-py 0.23.1

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1.273 uv 0.6.4

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1.275 pysaml 7.5.0

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1.276 django-strong-passwords 0.1.2

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1.277 bzt 1.16.34

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1.278 openapi-spec-validator 0.6.0

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* hotkeys-js v3.13.2

* A simple micro-library for defining and dispatching keyboard shortcuts. It has no dependencies.

*

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1.285 fuse 7.1.0

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1.287 types-pyyaml 6.0.12.20241230

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1.289 react-items-carousel 2.8.0

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1.290 django-stubs 5.1.1

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1.291 django-compressor 4.4

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1.292 cachecontrol 0.14.3

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1.293 robotframework 7.1.1

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1.299 rjsmin 1.2.1

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- Carl Crowder <bitbucket@carlcrowder.com>: don't evaluate the value of arguments for 'dangerous-default-value'
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1.305 react-codemirror2 8.0.1

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1.307 beautiful-soup 4.13.3

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1.311 rcssmin 1.1.1

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1.312 django-ratelimit 4.1.0

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1.313 python-ldap 3.4.4

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1.314 bleach-allowlist 1.0.3

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1.315 trove-classifiers 2025.5.9.12

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1.316 types-pyyaml 6.0.12.20250326

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1.317 django 4.2.20

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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=====
Advice for new contributors
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Get up and running!

If you are new to contributing to Django, the `:doc:`intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django, and how to approach that.

If you are looking for a reference on the details of making code contributions, see the `:doc:`internals/contributing/writing-code/index`` documentation.

First steps

=====

Start with these steps to discover Django's development process.

****Triage tickets****

If an ``unreviewed ticket`` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `:ref:`how-can-i-help-with-triaging``

****Look for tickets that are accepted and review patches to build familiarity with the codebase and the process****

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible

with older but still supported versions of Python. `:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

****Keep old patches up to date****

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Updating a patch is both useful and important! See more on `:doc:`writing-code/submitting-patches``.

*

****Write some documentation****

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

.. note::

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports page`: <https://code.djangoproject.com/wiki/Reports>

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.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

Guidelines

=====

As

a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

****Pick a subject area that you care about, that you are familiar with, or**

that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without *you*!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some

fall by the wayside ends up doing more harm than good.

****Be rigorous****

When we say "pep:8, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

****Be patient****

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to get through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the **Needs tests**, **Needs documentation**, and **Patch needs improvement** flags are unchecked once you've addressed all review comments.

Remember that Django has an eight-month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See [:ref:`contributing code FAQ <new-contributors-faq>`](#) for ideas here.

.. _easy pickings: <https://code.djangoproject.com/query?status=!closed&easy=1>
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1.318 xmlschema 2.5.1

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1.320 cron-descriptor 1.4.5

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1.322 robotframework-xvfb 1.2.2

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1.323 react-intl 7.1.0

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1.325 virtualenv 20.31.2

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1.326 blueimp-file-upload 10.32.0

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1.327 django-webpack-loader 0.7.0

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1.328 react-router-navigation-prompt 1.9.6

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1.337 jsonschema-spec 0.2.4

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1.338 requests-pkcs12 1.25

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1.339 rapidfuzz 3.13.0

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However, linking a "work that uses the Library" with the Library

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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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1.340 redux-form 8.3.10

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1.341 react-codemirror2 6.0.1

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1.343 object-sizeof 2.6.5

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1.344 py-consul 1.5.3

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1.345 protobuf 6.31.1

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* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Solaris 10 + Sun Studio fixes.

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* Slicing support for repeated scalar fields for the Python API.

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* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>
* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

1.346 kombu 5.5.4

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1.347 google-auth 2.40.3

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1.348 google-api-core 2.25.1

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1.349 pygments 2.19.2

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---input---

!%\$^* _- _ . _ + + + = = = -crazy-symbol

---tokens---

!%\$^* _- _ . _ + + + = = = -crazy-symbol' Name.Variable

'\n' Text.Whitespace

'# Step 1 of 3: from Hakaru to Maple LO (linear operator)\n' Comment.Single

'\n' Text.Whitespace

'toLO' Name

' ' Text.Whitespace

':=' Operator

' ' Text.Whitespace

'module' Keyword
 '(' Punctuation
 '\n ' Text.Whitespace
 'export' Keyword
 '\n ' Text.Whitespace
 'ModuleApply' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'm' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'h' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'h' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'gensym' Name
 '(' Punctuation
 "" Punctuation
 'h' Name
 "" Punctuation
 ');' Punctuation
 '\n
 ' Text.Whitespace
 '_Env_HakaruSolve' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'false' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'LO' Name
 '(' Punctuation
 'h' Name
 ';' Operator
 '' Text.Whitespace
 'integrate' Name
 '(' Punctuation

'm' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace
 '[]))' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'export' Keyword
 '\n ' Text.Whitespace
 'integrate' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'h'
 Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'list' Name
 '(' Punctuation
 'name' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'range' Name
 ')' Punctuation
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation

\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'n' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ';' Operator
 '' Text.Whitespace
 'br'
 Name
 ';' Operator
 '' Text.Whitespace
 'm0' Name
 ';' Punctuation
 \n\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'known_continuous' Name
 '' Text.Whitespace
 'then' Keyword
 \n ' Text.Whitespace
 'integrate_known' Name
 '(' Punctuation
 'Int' Name
 ';' Operator
 '' Text.Whitespace
 'Ints' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'xx' Name
 "" Punctuation
 ';' Operator
 '' Text.Whitespace

```

'm'      Name
','      Operator
''       Text.Whitespace
'h'      Name
','      Operator
''       Text.Whitespace
'loops'  Name
')'      Punctuation
'\n '    Text.Whitespace
'elif'   Keyword
''       Text.Whitespace
'm'
      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
'known_discrete' Name
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'integrate_known' Name
'('      Punctuation
'Sum'    Name
','      Operator
''       Text.Whitespace
'Sums'   Name
','      Operator
''       Text.Whitespace
''''     Punctuation
'kk'     Name
''''     Punctuation
','      Operator
''       Text.Whitespace
'm'      Name
','      Operator
''       Text.Whitespace
'h'      Name
','      Operator
''       Text.Whitespace
'loops'  Name
')'      Punctuation
'\n '    Text.Whitespace
'elif'   Keyword
''       Text.Whitespace
'm'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace

```

```

"""      Punctuation
'Ret'    Name
'('      Punctuation
'anything' Name
')'
    Punctuation
"""      Punctuation
''       Text.Whitespace
'then'   Keyword
'\n     ' Text.Whitespace
'applyintegrand' Name
'('      Punctuation
'h'      Name
';'      Operator
''       Text.Whitespace
'mk_ary' Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
';'      Operator
'm'      Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'loops'  Name
'))'     Punctuation
'\n     ' Text.Whitespace
'elif'   Keyword
''       Text.Whitespace
'm'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
"""      Punctuation
'Bind'   Name
'('      Punctuation
'anything' Name
';'      Operator
''       Text.Whitespace
'name'   Name
';'      Operator
''       Text.Whitespace
'anything' Name
')'      Punctuation
"""
    Punctuation
''       Text.Whitespace

```

'then' Keyword
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '' Text.Whitespace
 '==' Operator
 '' Text.Whitespace
 'mk_idx' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n
 ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'Integrand' Name
 '(' Punctuation
 'op' Name.Builtin

'(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'integrate' Name
 "" Punctuation
 '(' Punctuation
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 '))' Punctuation
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 '' Text.Whitespace
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 'op' Name.Builtin
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 '1'
 Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ');' Punctuation
 '\n ' Text.Whitespace
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 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator

'' Text.Whitespace
 "" Punctuation
 'specfunc' Name
 '(' Punctuation
 'Msum' Name
 ')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'and' Keyword
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 '(' Punctuation
 'nops' Name.Builtin
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 'loops' Name
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 '' Text.Whitespace
 '=' Operator
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 '0' Literal.Number.Integer
 '' Text.Whitespace
 'or' Keyword
 '' Text.Whitespace
 'nops'
 Name.Builtin
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 'm' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 '^+' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'map' Name.Builtin
 '(' Punctuation
 'integrate' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'm' Name

')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ')))' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '
 ' Text.Whitespace
 '''' Punctuation
 'Weight' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'anything' Name
 ')' Punctuation
 '''' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'foldl' Name
 '(' Punctuation
 'product' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'loops' Name
 '))' Punctuation
 '' Text.Whitespace
 '*:' Operator
 '' Text.Whitespace

'integrate' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'2' Literal.Number.Integer
',' Operator
'm'
Name
')' Punctuation
',' Operator
'' Text.Whitespace
'h' Name
',' Operator
'' Text.Whitespace
'loops' Name
')' Punctuation
'\n ' Text.Whitespace
'elif' Keyword
'' Text.Whitespace
'm' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
't_pw_or_part' Name
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'Partition' Name
':' Operator
'-' Operator
'AppPartOrPw' Name
'\n ' Text.Whitespace
'(' Punctuation
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'p' Name
')' Punctuation
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'not' Keyword
'' Text.Whitespace
'Partition' Name
':' Operator
'-' Operator
'ConditionsDepend'

Name
 '(' Punctuation
 'p' Name
 ';' Operator
 '' Text.Whitespace
 'lhs' Name.Builtin
 '~' Operator
 '(' Punctuation
 'loops' Name
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'Partition' Name
 ':' Operator
 '-' Operator
 'Pmap' Name
 '(' Punctuation
 'z' Name
 '->' Operator
 'integrate' Name
 '(' Punctuation
 'z' Name
 ';' Operator
 'h' Name
 ';' Operator
 'loops' Name
 ')' Punctuation
 ';' Operator
 'p' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 '\n '
 Text.Whitespace
 ';' Operator
 '' Text.Whitespace
 'm' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation

```

""      Punctuation
'no_split_disj' Name
""      Punctuation
']);'   Punctuation
'\n '   Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'm'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
't_case' Name
''      Text.Whitespace
'and'   Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'depends' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'map'   Name.Builtin
'('     Punctuation
'lhs'   Name.Builtin
';'     Operator
''      Text.Whitespace
'loops'
    Name
'))'    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'subsop' Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
'≡'     Operator
'map'   Name.Builtin
'('     Punctuation
'proc'  Keyword
'('     Punctuation
'b'     Name
''      Text.Whitespace

```

```

'::'      Operator
''        Text.Whitespace
'Branch'  Name
'('       Punctuation
'anything' Name
','       Operator
''        Text.Whitespace
'anything' Name
'))'     Punctuation
'\n      ' Text.Whitespace
'eval'   Name.Builtin
'('       Punctuation
'subsop' Name.Builtin
'('       Punctuation
'2'      Literal.Number.Integer
'='      Operator
''''     Punctuation
'integrate' Name
''''     Punctuation
'('       Punctuation
'op'     Name.Builtin
'('       Punctuation
'2'      Literal.Number.Integer
';'
      Operator
'b'      Name
')'      Punctuation
';'      Operator
''        Text.Whitespace
'x'      Name
';'      Operator
''        Text.Whitespace
'loops'  Name
')'      Punctuation
';'      Operator
'b'      Name
')'      Punctuation
';'      Operator
''        Text.Whitespace
'x'      Name
'='      Operator
'h'      Name
')'      Punctuation
'\n      ' Text.Whitespace
'end'    Keyword
''        Text.Whitespace
'proc'   Keyword
';'      Operator

```

```

\n      ' Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'm'     Name
'))'    Punctuation
';'     Operator
\n      ' Text.Whitespace
'm'     Name
');'    Punctuation
\n      ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'm'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
''''    Punctuation
'LO'   Name
'('     Punctuation
'name'  Name
';'     Operator
''      Text.Whitespace
'anything' Name
')'     Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
\n      ' Text.Whitespace
'eval'  Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
''      Text.Whitespace

```

```

'='      Operator
''       Text.Whitespace
'h'      Name
')'      Punctuation
'\n '    Text.Whitespace
'elif'   Keyword
''       Text.Whitespace
'm'
  Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
''''     Punctuation
'Plate'  Name
'('      Punctuation
'nonnegint' Name
';'      Operator
''       Text.Whitespace
'name'   Name
';'      Operator
''       Text.Whitespace
'anything' Name
')'      Punctuation
''''     Punctuation
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'# Unroll Plate when the bound is known. We unroll Plate here (instead\n' Comment.Single

' '      Text.Whitespace
'# of unrolling Ints in reduce, for example) because we have no other\n' Comment.Single

' '      Text.Whitespace
"# way to integrate certain Plates, namely those whose bodies' control\n" Comment.Single

' '      Text.Whitespace
'# flows depend on the index.\n' Comment.Single

' '      Text.Whitespace
'x'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'mk_sym'
  Name
'('      Punctuation
''''     Punctuation
'pp'     Name

```

"""	Punctuation
'	Operator
''	Text.Whitespace
'h'	Name
);'	Punctuation
\n	Text.Whitespace
'x'	Name
''	Text.Whitespace
':='	Operator
''	Text.Whitespace
'['	Punctuation
'seq'	Name.Builtin
('	Punctuation
'cat'	Name.Builtin
('	Punctuation
'x'	Name
;	Operator
'i'	Name
)'	Punctuation
;	Operator
''	Text.Whitespace
'i'	Name
='	Operator
'0'	Literal.Number.Integer
..'	Punctuation
'op'	Name.Builtin
('	Punctuation
'1'	Literal.Number.Integer
;	Operator
'm'	Name
)'	Punctuation
-'	Operator
'1'	Literal.Number.Integer
)]:'	Punctuation
\n	Text.Whitespace
'if'	
	Keyword
''	Text.Whitespace
'op'	Name.Builtin
('	Punctuation
'1'	Literal.Number.Integer
;	Operator
'm'	Name
)'	Punctuation
''	Text.Whitespace
='	Operator
''	Text.Whitespace
'0'	Literal.Number.Integer

```

''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'undefined' Name
';'     Punctuation
'\n    ' Text.Whitespace
'else'  Keyword
'\n    ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
''      Text.Whitespace
'then'
      Keyword
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'x'     Name
');'    Punctuation
'\n    ' Text.Whitespace
'else'  Keyword
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'idx'   Name
'('     Punctuation
'x'     Name

```

```

';'      Operator
'op'     Name.Builtin
'('      Punctuation
'2'      Literal.Number.Integer
';'      Operator
'm'      Name
');'     Punctuation
'\n'     Text.Whitespace

'#       res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),\n' Comment.Single

'#       op(1,x));\n' Comment.Single

'      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'
      Keyword
';'     Punctuation
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'mk_idx' Name
'('     Punctuation
'res'   Name
';'     Operator
''      Text.Whitespace
'loops' Name
');'    Punctuation
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n    ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'applyintegrand' Name
'('     Punctuation
'h'     Name
';'     Operator
''      Text.Whitespace
'mk_ary' Name
'('     Punctuation

```

"""	Punctuation
'ary'	Name
"""	Punctuation
'('	Punctuation
'op'	Name.Builtin
'('	Punctuation
'1'	Literal.Number.Integer
','	Operator
'm'	Name
)'	
	Punctuation
','	Operator
''	Text.Whitespace
'op'	Name.Builtin
'('	Punctuation
'2'	Literal.Number.Integer
','	Operator
'm'	Name
)'	Punctuation
','	Operator
''	Text.Whitespace
'res'	Name
)'	Punctuation
','	Operator
''	Text.Whitespace
'loops'	Name
));'	Punctuation
\n	Text.Whitespace
'for'	Keyword
''	Text.Whitespace
'i'	Name
''	Text.Whitespace
'from'	Keyword
''	Text.Whitespace
'op'	Name.Builtin
'('	Punctuation
'1'	Literal.Number.Integer
','	Operator
'm'	Name
)'	Punctuation
''	Text.Whitespace
'to'	Keyword
''	Text.Whitespace
'1'	Literal.Number.Integer
''	Text.Whitespace
'by'	Keyword
''	Text.Whitespace
-'	Operator

'1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'integrate' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '≡' Operator
 'i' Name
 '-' Operator
 '1' Literal.Number.Integer
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'Integrand' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name
 ';' Operator
 'x' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ')' Punctuation
 ';' Operator

```

''      Text.Whitespace
'loops' Name
');'    Punctuation
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'do'    Keyword
';'     Punctuation
'\n    ' Text.Whitespace
'res'   Name
'\n    ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'm'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
''''    Punctuation
'Plate' Name
'('     Punctuation
'anything' Name
';'     Operator
''      Text.Whitespace
'name'  Name
';'     Operator
''      Text.Whitespace
'anything' Name
')'     Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'integrate'
  Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'3'     Literal.Number.Integer
';'     Operator
'm'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'h'     Name
';'     Operator
''      Text.Whitespace
'['     Punctuation
'op'    Name.Builtin

```

'(' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '=' Operator
 '0' Literal.Number.Integer
 '..' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'loops' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 'elif'
 Keyword
 '' Text.Whitespace
 'm' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 "" Punctuation
 'Context' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'anything' Name
 ')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'applyop' Name
 '(' Punctuation
 'integrate' Name
 ';' Operator
 '' Text.Whitespace
 '2' Literal.Number.Integer

```

','      Operator
''      Text.Whitespace
'm'     Name
','      Operator
''      Text.Whitespace
'h'     Name
','      Operator
''      Text.Whitespace
'loops' Name
')'     Punctuation
'\n '   Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'h'     Name
''      Text.Whitespace
'::'    Operator
''
      Text.Whitespace
'apliable' Name
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'x'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'gensym' Name
'('     Punctuation
''''    Punctuation
'xa'    Name
''''    Punctuation
');'    Punctuation
'\n '   Text.Whitespace
''''    Punctuation
'integrate' Name
''''    Punctuation
'('     Punctuation
'm'     Name
','      Operator
''      Text.Whitespace
'Integrand' Name
'('     Punctuation
'x'     Name
','      Operator
''      Text.Whitespace
'h'     Name
'('     Punctuation
'x'     Name

```

))' Punctuation
 ;' Operator
 '' Text.Whitespace
 'loops' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 '''' Punctuation
 'procname' Name
 '(_'
 Punctuation
 'passed' Name
 ')' Punctuation
 '''' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n\n ' Text.Whitespace
 'local' Keyword
 '\n ' Text.Whitespace
 'integrate_known' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'make' Name
 ';' Operator
 '' Text.Whitespace
 'makes' Name
 ';' Operator
 '' Text.Whitespace
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'm' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ';' Operator
 '' Text.Whitespace

'loops' Name
 '' Text.Whitespace
 '::' Operator
 '
 ' Text.Whitespace
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'dens' Name
 ';' Operator
 '' Text.Whitespace
 'bds' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'x' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'mk_sym' Name
 '(' Punctuation
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'h' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'dens' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'density' Name
 '[' Punctuation
 'op'
 Name.Builtin
 '(' Punctuation

'0' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')](' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'm' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'bds' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'bounds' Name
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'm' Name
 ')](' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'm' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'loops' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '[' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'make' Name
 '('
 Punctuation
 'dens' Name
 '(' Punctuation
 'x' Name
 ')' Punctuation
 '' Text.Whitespace
 '*:' Operator
 '' Text.Whitespace
 'applyintegrand' Name
 '(' Punctuation

'h' Name
',' Operator
'' Text.Whitespace
'x' Name
')' Punctuation
',' Operator
'' Text.Whitespace
'x' Name
'' Text.Whitespace
'=' Operator
'' Text.Whitespace
'bds' Name
');' Punctuation
'\n ' Text.Whitespace
'else' Keyword
'\n ' Text.Whitespace
'makes' Name
'(' Punctuation
'foldl' Name
'(' Punctuation
'product' Name
',' Operator
'' Text.Whitespace
'dens' Name
'(' Punctuation
'mk_idx' Name
'(' Punctuation
'x' Name
',' Operator
'loops' Name
'))' Punctuation
','
Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'loops' Name
'))' Punctuation
'\n ' Text.Whitespace
'*' Operator
'' Text.Whitespace
'applyintegrand' Name
'(' Punctuation
'h' Name
',' Operator
'' Text.Whitespace
'x' Name
')' Punctuation

```

';      Operator
'\n    ' Text.Whitespace
'x'    Name
';      Operator
''     Text.Whitespace
'bds'  Name
';      Operator
''     Text.Whitespace
'loops' Name
')'    Punctuation
'\n '  Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'if'   Keyword
';'    Punctuation
'\n '  Text.Whitespace
'end'  Keyword
''     Text.Whitespace
'proc' Keyword
';'    Punctuation
'\n'   Text.Whitespace

'end'  Keyword
''     Text.Whitespace
'module' Keyword
';'
      Punctuation
''     Text.Whitespace
'#toLO\n' Comment.Single
# Teach Maple (through depends and eval) about our new binding forms.
# forall bind from 1st arg to 2nd arg.
# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element
#   of the 4th arg to the other elements on the left and to the 3rd arg.

`depends/forall` := proc(bvar, pred, x, $)
  depends(pred, x minus convert(bvar, 'set'))
end proc:

`depends/Ints` := proc(body, bvar, rng, loops, x, y, $)
  local xx, i;
  if nargs = 5 then
    xx := x; # y is unused and x lists the variables to look for
  else
    xx := y; # x is some KB and y lists the variables to look for
    if depends(x, y) then return true end if;
  end if;
  # don't remove bvar from xx!
  if depends(body, xx minus {bvar}) then return true end if;

```

```

for i from nops(loops) to 1 by -1 do
  if depends(op([i,2],loops), xx) then return true end if;
  xx := xx minus {op([i,1],loops)};
end do;
depends(rng, xx)
end proc:
`depends/Sums` := eval(`depends/Ints`):
`depends/ints` := eval(`depends/Ints`):
`depends/sums`
:= eval(`depends/Ints`):

`eval/forall` := proc(e, eqs, $)
local bvar, pred;
bvar, pred := op(e);
eval(op(0,e), eqs)(BindingTools:-generic_evalat(bvar, pred, eqs))
end proc:

`eval/Ints` := proc(e, eqs, $)
local body, bvar, rng, loops, n, i;
body, bvar, rng, loops := op(1..4, e);
bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
eval(op(0,e), eqs)(body, bvar,
  BindingTools:-generic_evalatstar(rng, loops, eqs),
  op(5..-1,e))
end proc:
`eval/Sums` := eval(`eval/Ints`):
`eval/ints` := eval(`eval/Ints`):
`eval/sums` := eval(`eval/Ints`):

`eval/Int` := proc(e, eqs, $)
local body, bound, bvar;
body, bound := op(1..2, e);
if bound :: name then
  bound, body := BindingTools:-generic_evalat(bound, body, eqs);
elif bound :: `=` then
  bvar := lhs(bound);
  bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
  bound := bvar = eval(rhs(bound), eqs);
else
  body, bound := BindingTools:-generic_evalatstar(body,
bound, eqs);
end if;
eval(op(0,e), eqs)(body, bound, op(eval([op(3..-1,e)], eqs)))
end proc:
`eval/Sum` := eval(`eval/Int`):
`eval/Product` := eval(`eval/Int`):
`eval/int` := eval(`eval/Int`):
`eval/sum` := eval(`eval/Int`):

```

```
`eval/product` := eval(`eval/Int`):
```

```
#####
```

```
Loop := module ()
option package;
local intssums, enter_pieewise, wrap,
    t_peel, do_peel, do_split, do_graft, do_rebase_lower, do_rebase_upper,
    Binder, Stmt, t_binder, t_stmt, t_exp,
    ModuleLoad;
export
    # These first few are smart constructors (for themselves):
    ints, sums,
    # while these are "proper functions"
    mk_HArray, genLoop, unproducts, unproduct,
    peel, split, graft, rebase_lower, rebase_upper, Print;
# these names are not assigned (and should not be). But they are
# used as global names, so document that here.
global Ints, Sums, csgn, sum, signum;
uses Hakaru, KB, Utilities;

t_binder := 'Binder(identical(product, Product, sum, Sum), t_kb)';
t_stmt := 'Stmt(anything, list, list)';
t_exp := '{ Stmt(identical(exp), [], []),
    Stmt(identical(`^`), [anything], [])}';

ints := proc() intssums('ints', 'int', _passed) end proc;
sums := proc() intssums('sums', 'sum', _passed) end proc;

Print := proc(kind::identical(Ints,Sums,ints,sums),e,v::name,r0::range,rs::list(name=range),$)
    local k;
    k := StringTools[Capitalize](StringTools[Chop](convert(kind,string)));
    k := parse(cat("`print`",eval(k),""));
    eval(k)(e,v[op(rs)]=r0);
end proc;

intssums := proc(makes::name, make::name,
    e::anything, x::name, rr::range, ll::list(name=range),
    kb::t_kb:=empty, $)
    local t, r, l, kb2, w0, pp, i;
    t := `if` (make=int, HReal(open_bounds(rr)), HInt(closed_bounds(rr)));
    r, l, kb2 := genLoop(rr, ll, kb, 'Integrand'(x,e));
    w0, pp := unproducts(e, x, l,
kb2);
    if depends(w0, x) then
        'makes(e, x, rr, ll)'
    else
        pp := 'make'(pp, x=r);
    end if;
end proc;

```

```

    for i in l do pp := 'product'(pp, i) end do;
    NewSLO:-simplify_factor_assuming(w0 * pp, kb);
end if
end proc;

mk_HArray := proc(t::t_type, loops::list(name=range), $)
    local res, i;
    res := t;
    for i in loops do res := HArray(res) end do;
    res
end proc;

genLoop := proc(e, loops::list(name=range), kb::t_kb)
    local kb1, rng, ind, do_subst, i;
    kb1 := kb;
    rng := table();
    ind := table();
    do_subst := e -> foldl(((e,eq) -> eval(e, op([lhs(eq),1],loops)=rhs(eq))),
        e, entries(ind, 'pairs'));
    for i from nops(loops) to 1 by -1 do
        rng[i] := do_subst(op([i,2],loops));
        ind[i], kb1 := genType(op([i,1],loops), HInt(closed_bounds(rng[i])),
            kb1, _rest);
    end do;
    do_subst(e), zip(`=`, [entries(ind, 'nolist'),
        [entries(rng, 'nolist')]), kb1
end
proc;

unproducts := proc(w, x::name, loops::list(name=range), kb::t_kb, $)
    local w0, pp, j, w1, w2, loop;
    w0 := 1;
    pp := w;
    for j from nops(loops) to 1 by -1 do
        w1, pp := op(unproduct(pp, x, op(j,loops), [], `^`, kb, kb));
        # separate out each of the factors in w1, as they might have different
        # variable dependencies, which can be exploited by other routines
        w2 := convert(w1, 'list', `^`);
        for loop in [op(j+1..-1, loops)] do
            w2 := map((w -> product(eval(w, x=idx(x,lhs(loop))), loop)), w2);
        end do;
        w0 := w0 * `^`(op(w2));
        # w0 := w0 * foldl(product, w1, op(j+1..-1, loops));
    end do;
    # Rewrite ... * piecewise(i<=kk-1, xs^2, 1)
    # to ... * xs ^ (2*piecewise(i<=kk-1, 1))
    # because the latter is easier to integrate and recognize with respect to xs
    pp := for_poly(pp, # TODO: move this rewrite into eval_factor (then remove for_poly)?)

```

```

proc (p)
  local n, s, r;
  if p :: 'And(specfunc(piecewise),
anyfunc(freeof(x), anything, 1))' then
    n := indets(op(1,p),name);
    if op(2,p) :: {'exp(anything)', '^'^(('freeof'(n),'anything'))} then
      s, r := selectremove(depends, convert(op([2,-1],p),'list','^*'), n);
      subsop(-1 = `*(piecewise(op(1,p), `*(op(s))), op(r)), op(2,p))
    else
      s, r := selectremove(depends, convert(op(2,p),'list','^*'), n);
      `*(op(r) ^ piecewise(op(1,p), 1)
        * `if (nops(s) > 0, piecewise(op(1,p), `*(op(s)), 1), 1)
    end if
  else
    p
  end if
end proc);
w0, pp
end proc;

# Find [w1,pp] so that
# wrap(heap,w,mode,kb1,kb0)
# = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)
# making w1 depend on var as little as possible.
# The flag "mode" should be `+` if "heap" contains an entry of the form
# t_exp, or `*` otherwise.
unproduct := proc(w, var::name, loop::(name=range),
  heap::list, mode::identical(`*`,`+`),
  kb1::t_kb, kb0::t_kb, $)
  local ind, res, dummy, kb, kbThen, i, w1, pp, s, r, x;
  if not depends(w, var) then
    return [wrap(heap, w, mode, kb1, kb0), 1]
  end if;
  # The `.` (indices) of all occurrences of `idx(var,...)`
  ind := map2(op, 2, indets(w, 'idx(identical(var), anything)'));
  if nops(ind) = 1 then
    ind := op(ind);
    # Make sure ind contains no bound variables before lifting it!
    # So, check that "extract using indets" and "rename using eval" commute.
    s := indets(ind, 'name');
    s := map(proc(x,$) local y; `if` (depends(ind,x), x=y, NULL) end proc, s);
    if indets(eval(w, s), 'idx(identical(var), anything)')
      = {idx(var, eval(ind, s))} then
      # use kb as a local context, and 'solve' for the innermost bound var
      # used in ind.
      kb := assert(lhs(loop)=ind, kb1); # BUG! bijectivity assumed!
      # if the assertion makes the KB false, it isn't needed(?)

```

```

ASSERT(type(kb, t_kb),
  sprintf("assert(%a,%a) produced a false KB!\n", lhs(loop)=ind,kb1)):
res := subs(idx(var,ind) = idx(var,lhs(loop)), w);
res := wrap(heap, res, mode, kb, kb0);
res := subs(idx(var,lhs(loop))=dummy, res);
if not depends(res, var) then
  return [1, subs(dummy=var, res)]
end if
end if
end if;
# distribute the unproduct over each part
if w :: mode then
  res := map(unproduct, `if` (mode=`*`, list_of_mul(w), [op(w)]),
    var, loop, heap, mode, kb1, kb0);
  return [ `*(op(map2(op,1,res))), `*(op(map2(op,2,res))) ]
end if;
# for piecewise, just map right in (using KB for context tracking)
if w :: 'specfunc(piecewise)' then
  kb := kb1;
  for i from 1 to nops(w) do
    if i :: even then
      kbThen := assert( op(i-1,w) , kb);
      # accumulate the rest, regardless
      kb := assert(Not(op(i-1,w)), kb);

      # if kbThen
is invalid, deal appropriately
      if not type(kbThen,t_kb) then next end if;

      w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kbThen,kb0));
      # if kb is inconsistent, we're done
      if not type(kb,t_kb) then break end if;
    elif i = nops(w) then
      if not type(kb,t_kb) then next end if;
      w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kb ,kb0))
    end if
  end do;
  return [ `*(entries(w1,'nolist')), `*(entries(pp,'nolist')) ]
end if;
if mode = `*` then
  if w :: (anything^freeof(var)) then
    return unproduct(op(1,w), var, loop,
      [op(heap), Stmt(`^`, [], [op(2,w)]), `*`, kb1, kb0)
    ]
  elif w :: exp(anything) then
    return unproduct(op(1,w), var, loop,
      [op(heap), Stmt(exp, [], []), `+`, kb1, kb0)
    ]
  elif w :: (freeof(var)^anything) then
    return unproduct(op(2,w), var, loop,

```

```

                [op(heap), Stmt(`^`,
[op(1,w)], [])], `+`, kb1, kb0)
    end if
end if;
if mode = `+` and w :: `*` then
    s, r := selectremove(depends, w, var);
    if s :: `*` then
        # Nonlinear %1 (time to reread kiselyov-lifted?)
    else
        return unproduct(s, var, loop,
                [op(heap), Stmt(`*`, [], [r]), `+`, kb1, kb0)
        end if
end if;
if w :: And(specfunc(`if` (mode = `*`, {product, Product}, {sum, Sum})),
    anyfunc(anything, name=range(freeof(var)))) then
    x, kb := genType(op([2,1],w), HInt(closed_bounds(op([2,2],w))), kb1,
        w, var, loop, heap);
    return unproduct(eval(op(1,w), op([2,1],w)=x), var, loop,
        [op(heap), Binder(op(0,w), kb1)], mode, kb, kb0)
end if;
if mode = `*` and w :: '{`+`, specfunc({sum, Sum})}' then
    # Maybe this w is one of those big sums involving products that are
    # always equal to 1, left behind by the density of Categorical
    w1 := graft(split(peel(w)));
    w1 := combine(rebase_upper(w1));
    w1 := combine(rebase_lower(w1));
    return [wrap(heap, w1, mode, kb1, kb0), 1]
end if;
return [wrap(heap, w, mode, kb1, kb0), 1]
end proc;

enter_pieewise := proc(ee, kb0::t_kb, mode::identical(`*`, `+`), $)
    local e, kb, mo;
    e := ee;
    kb := kb0;
    mo := mode();
    while e :: 'specfunc(pieewise)' and nops(e) = 3 do
        if op(3,e) = mo then
            kb := assert(op(1,e), kb);
            e := op(2,e);
        elif op(2,e) = mo then
            kb := assert(Not(op(1,e)), kb);
            e := op(3,e);
        else
            break;
        end if;
    end do;
    ASSERT(type(kb,t_kb), "enter_pieewise: KB of pieewise conditions is not valid, so the input pieewise must

```

```

not be valid.");
  e, kb
end proc;

# heap is a list of t_binder and t_stmt
# one invariant to maintain:
# wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)

# Also, a t_binder is a Product/product/Sum/sum.
# And, a t_stmt is a 1-hole
context of a (multiplicative) AST,
# used for [a ^ hole, hole ^ b, exp(hole), c * hole].

wrap := proc(heap::list, e1, mode1::identical(`*`,`+`),
             kb1::t_kb, kb0::t_kb, $)
local e, kb, mode, i, entry, rest, var, new_rng, make, logmake,
      dom_spec, w, wPow, wExp, arrrgs;
  e := e1;
  kb := kb1;
  mode := mode1;
  for i from nops(heap) to 1 by -1 do
    entry := op(i,heap);
    if entry :: t_binder then
      if not (op(1,entry) in `if` (mode=`+`, {sum,Sum},
                                {product,Product})) then
        print("Warning: heap mode inconsistency", heap, mode1)
      end if;
      e, kb := enter_pieewise(e, kb, mode);
      rest := kb_subtract(kb, op(2,entry));
      new_rng, rest := selectremove(type, rest,
        {[identical(genType), name, specfunc(HInt)],
         [identical(genLet), name, anything]});
      if not (new_rng :: [list]) then
        error "kb_subtract should return exactly
one gen*"
      end if;
      new_rng := op(new_rng);
      var := op(2,new_rng);
      if op(1,new_rng) = genType then
        make := op(1,entry);
        new_rng := range_of_HInt(op(3,new_rng));
      else # op(1,new_rng) = genLet
        make := eval;
        new_rng := op(3,new_rng);
      end if;
      dom_spec, rest := selectremove(depends,
        map(proc(a:[identical(assert),anything],$) op(2,a) end proc, rest),
      var);

```

```

# Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);
# but try to simplify by pushing the make and the piecewise into e
(e, w) := selectremove(depends, convert(e, 'list', `*`), var);
w := `*(op(w));
if mode = `*` then
  (wPow, e) := selectremove(type, e, `^`('freeof'(var), 'anything'));
  (wExp, e) := selectremove(type, e, 'exp(anything)');
  wExp := `+(op(map2(op, 1, wExp)));
  wExp := expand(wExp, op(indets(wExp, function)));
  logmake := proc(t)
    local s, r;
    s, r := selectremove(depends, convert(t, 'list', `*`), var);
    `*(op(r),
      `if (make=eval,eval,Sum)
        (piecewise_And(dom_spec, `*(op(s)), 0), var=new_rng));
    end proc;
  w := `*( `if (w = 1, 1, w ^ logmake(1))
    , op(map((f -> op(1,f) ^ logmake(op(2,f))), wPow))
    , `if (wExp = 0, 1, exp(maptypes(`+,logmake,wExp))) );
end if;
e := w * make(piecewise_And(dom_spec, `*(op(e)), mode()), var=new_rng);

# `rest' originally comes from `entry', and this reinserts it after some
# processing. The original KB was valid, so this one should also be valid.
kb := foldr(assert, op(2,entry), op(rest));
ASSERT(type(kb,t_kb), "Loop/wrap{t_binder}: rebuilding kb produced contradiction");

elif entry :: t_stmt then
# We evaluate arrrgs first, in case op(1,stmt) is an operation (such
as
# piecewise) that looks ahead at how many arguments it is passed before
# they are evaluated.
arrrgs := op(op(2,entry)), e, op(op(3,entry));
e := op(1,entry)(arrrgs);
if entry :: t_exp then
  if mode <> `+` then
    print("Warning: heap mode inconsistency?", heap, mode1)
  end if;
  mode := `*`;
end if
else error "Malformed heap entry %1", entry end if
end do;
if mode <> `*` then
  print("Warning: heap mode inconsistency???", heap, mode1)
end if;
e, kb := enter_piecewise(e, kb, mode);
rest := kb_subtract(kb, kb0);

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rest := map(proc(a:[identical(assert),anything],$) op(2,a) end proc, rest);
(wExp, e) := selectremove(type, convert(e, 'list', `*`), 'exp(anything)');
wExp := `+(op(map2(op, 1, wExp)));
wExp := expand(wExp, op(indets(wExp, function)));
logmake := (t -> t * piecewise_And(rest,1,0));
`if (wExp = 0, 1, exp(maptypes(`+,logmake,wExp)))

    * piecewise_And(rest,`*(op(e)),1);
end proc;

# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)
# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)
t_peel := 'And(specfunc({sum,Sum,product,Product}),
    anyfunc(anything, name=range))';
peel := proc(e, $)
    subsindets(e, t_peel, do_peel);
end proc;
do_peel := proc(e, $)
    local make, body, x, r, cond, line, test, x0, r0, cond0, here, rest;
    if not (e :: t_peel) then return e end if;
    if op(0,e) in '{sum ,Sum }' then make := `+`;
    elif op(0,e) in '{product,Product}' then make := `*`; end if;
    body, r := op(e);
    x, r := op(r);
    for cond in indets(body, '{`= `(algebraic),`<`,`<=`}') do
        line := `-(op(cond));
        if 1 <> degree(line, x) then next end if;
        if cond :: `=` then
            cond0 := true;
            if Testzero(eval(line, x=lhs(r))) then
                x0 := lhs(r); r0 := applyop(`+, 1, r, 1);
            elif Testzero(eval(line, x=rhs(r))) then
                x0 := rhs(r); r0 := applyop(`-, 2, r, 1);
            else next end if;
        else
            test := proc(x0, x1, $)
                local res;
                res := evalb(not op(0,cond)(eval(line, x=x1), 0));
                `if (res in '{true,false}'
                    and evalb(op(0,cond)(eval(line, x=x0), 0)) = res,
                    res,
                    FAIL)
            end proc;
            cond0 := test(lhs(r), lhs(r)+1);
            if cond0 <> FAIL then
                x0 := lhs(r); r0 := applyop(`+, 1, r, 1);
            else

```

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cond0 := test(rhs(r), rhs(r)-1);
if cond0 <> FAIL then
  x0 := rhs(r); r0 := applyop(`^`, 2, r, 1);
else next end if;
end if;
end if;
here := subs(cond = cond0, body);
rest := subs(cond = evalb(not cond0), body);
return make(eval(here, x=x0), do_peel(eval(subsop(1=rest, [2,2]=r0, e))));
end do;
return e;
end proc;

```

```

# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)
split := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum})),
    anyfunc(And(`^`,Not(`^`(Not(`^`))))),name=anything)',
    do_split);
end proc;
do_split := proc(e, $)
  local terms, x;
  terms := convert(expand(op(1,e), op(indets(op(1,e), function))),
    'list', `^`);
  x := op([2,1],e);
  `^`(op(map(proc(term, $)
    local s, r;
    s, r := selectremove(depends, convert(term, 'list', `^`), x);
    `^`(op(r), subsop(1=`^`(op(s),e))
  end proc, terms)))
end proc;

```

```

# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)
graft := proc(e, $)
  subsindets(e, 'Or(And(`^`,Not(`^`(Not(specfunc({product,Product}))))),
    And(`^`,Not(`^`(Not(specfunc({sum ,Sum }))))))',
    do_graft);
end proc;
do_graft := proc(e, $)
  local produce, factors, i, j;
  produce := `if` (e::`^`, '{product,Product}',
    '{sum ,Sum }');
  factors := sort(convert(e,'list'),
    key = (factor -> -numboccur(factor,produce)));
  for i from nops(factors) to 2 by -1 do
    for j from i-1 to 1 by -1 do
      if op(j,factors) :: 'And'(specfunc'(produce),
        'anyfunc(anything,name=range)') then

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if Testzero(op(i,factors) - eval(op([j,1],factors),
    op([j,2,1],factors)=op([j,2,2,1],factors)-1)) then
    factors := subsop(i=NULL,applyop(`^`,[j,2,2,1],factors,1));
    break
elif Testzero(op(i,factors) - eval(op([j,1],factors),
    op([j,2,1],factors)=op([j,2,2,2],factors)+1)) then
    factors := subsop(i=NULL,applyop(`^`,[j,2,2,2],factors,1));
    break
end if
end if
end do
end do;
op(0,e)(op(factors))
end proc;

# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)
rebase_lower := proc(e, $)
    subsindets(e, 'And(specfunc({sum,Sum,product,Product})),
        anyfunc(anything,
            name=Not({0,SymbolicInfinity,undefined})..anything)'),
        do_rebase_lower);
end proc;
do_rebase_lower := proc(e, $)
    subsop([2,2,1]=0,
        applyop(`^`,
            [2,2,2],
            applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,1],e)),
            op([2,2,1],e)))
end proc;

# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)
rebase_upper := proc(e, $)
    subsindets(e, 'And(specfunc({sum,Sum,product,Product})),
        anyfunc(anything,
            name=anything..Not({0,SymbolicInfinity,undefined}))),
        do_rebase_upper);
end proc;
do_rebase_upper := proc(e, $)
    subsop([2,2,2]=0,
        applyop(`^`,
            [2,2,1],
            applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,2],e)),
            op([2,2,2],e)))
end proc;

ModuleLoad := proc($)
    # Override csgn to work a little bit harder on piecewise and sum

```

```

# (to get rid
of csgn(1/2+1/2*sum(piecewise(...,1,0),...))
# produced by int on a Gaussian mixture model)
unprotect(csgn);
csgn := overload([
# Handle if the csgn of a piecewise doesn't depend on which branch
proc(a :: specfunc(piecewise), $)
option overload;
local r, i;
r := {seq(`if (i::even or i=nops(a), csgn(op(i,a)), NULL),
i=1..nops(a))};
if nops(r)=1 then return op(r) end if;
if not assigned(_Envsignum0) then
r := r minus {0};
if nops(r)=1 then return op(r) end if;
end if;
error "invalid input: cannot csgn %1", a;
end proc,
# Handle if the csgn of a sum doesn't depend on the bound variable
proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
option overload;
local r;
r := csgn(op(1,a));
if not depends(r,op([2,1],a)) then
return signum(op([2,2,2],a)+1-op([2,2,1],a)) * r
end if;
error
"invalid input: cannot csgn %1", a;
end proc,
csgn]);
protect(csgn);

# Do the same to signum.
unprotect(signum);
signum := overload([
# Handle if the signum of a piecewise doesn't depend on which branch
proc(a :: specfunc(piecewise), $)
option overload;
local r, i;
r := {seq(`if (i::even or i=nops(a), signum(op(i,a)), NULL),
i=1..nops(a))};
if nops(r)=1 then return op(r) end if;
if not assigned(_Envsignum0) then
r := r minus {0};
if nops(r)=1 then return op(r) end if;
end if;
error "invalid input: cannot signum %1", a;
end proc,

```

```

# Handle if the signum of a sum doesn't depend on the bound variable
proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
  option overload;
  local r;
  r := signum(op(1,a));
  if not depends(r,op([2,1],a)) then
    return signum(op([2,2,2],a)+1-op([2,2,1],a))
  * r
  end if;
  error "invalid input: cannot signum %1", a;
end proc,
signum]);
protect(signum);

# Override sum to fail faster
unprotect(sum);
sum := overload([
  proc(f :: Not({`+`,`+`^integer}),
    k :: name=And(range,Not(range(rational))), $)
    option overload;
    if not (`-(op(rhs(k))) :: 'rational')
      and not (subsindets(f, 'anything^integer', f->op(1,f))
        :: '{`+`,`+`,`+`^integer}'))
      and depends(indets(f, '{specfunc(idx), specindex(idx)}'), op(1,k))
    then
      'procname(_passed)'
    else
      error "invalid input: cannot fast-fail sum(%1, %2)", _passed
    end if
  end proc,
  sum]);
protect(sum);

:-`print/Ints` := curry(thismodule:-Print,Ints);
:-`print/Sums` := curry(thismodule:-Print,Sums);
:-`print/ints` := curry(thismodule:-Print,ints);
:-`print/sums` := curry(thismodule:-Print,sums);

end proc;
ModuleLoad():
end
module; # Loop
'# New ports collection makefile for: python25\n' Comment

'# Date created:    3 July 2003\n' Comment

'# Whom:           Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

```

```
'#\n'      Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

'\n'      Text.Whitespace

'PORTNAME' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'python25' Text
'\n'      Text.Whitespace

'PORTVERSION' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'2'       Literal.Number
'.5.1'    Text
'\n'      Text.Whitespace

'CATEGORIES' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'lang'    Text
''        Text.Whitespace
'python'  Text
''        Text.Whitespace
'ipv6'    Text
'\n'      Text.Whitespace

'MASTER_SITES' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
        Literal.String.Interpol
'\n'      Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'      Literal.String.Interpol
'\n'      Text.Whitespace

'DISTFILES' Name.Variable
'='       Operator
```

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable
'=' Operator
'\t' Text.Whitespace
'python@FreeBSD.org' Text
'\n' Text.Whitespace

'COMMENT' Name.Variable
'?=' Operator
'\t' Text.Whitespace
'An' Text
' ' Text.Whitespace
'interpreted' Text
' ' Text.Whitespace
'object-oriented' Text
' ' Text.Whitespace
'programming' Text
' ' Text.Whitespace
'language' Text
'\n'
Text.Whitespace

'\n' Text.Whitespace

'DIST_SUBDIR' Name.Variable
'=' Operator
'\t' Text.Whitespace
'python' Text
'\n' Text.Whitespace

'WRKSRC' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.static' Text
'\n' Text.Whitespace

'PATCH_WRKSRC' Name.Variable
'=' Operator

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'GNU_CONFIGURE' Name.Variable

'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'CONFIGURE_TARGET' Name.Variable

'=' Operator
'\t' Text.Whitespace
'--build' Text
'=' Operator
'\${' Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}' Literal.String.Interpol
'-portbld-freebsd'
Text
'\${' Literal.String.Interpol
'OSREL' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable

'=' Operator
'\t' Text.Whitespace
'./configure' Text
' ' Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable

'=' Operator
'\t' Text.Whitespace
'OPT' Name.Variable
'=' Operator
""" Literal.String.Double
'\${' Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
""" Literal.String.Double
' ' Text.Whitespace
'SVNVERSION' Name.Variable
'=' Operator
"echo freebsd" Literal.String.Double

'\n' Text.Whitespace

'MAKE_ENV' Name.Variable

'=' Operator

'\t' Text.Whitespace

'VPATH' Name.Variable

'=' Operator

""" Literal.String.Double

'\${' Literal.String.Interpol

'PYTHON_WRKSRC'

Name.Variable

'}' Literal.String.Interpol

""" Literal.String.Double

'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace

'altinstall' Text

'\n' Text.Whitespace

'MAN1' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.1' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python2.5' Text

'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.shared' Text

'\n' Text.Whitespace

'PLIST' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/PLIST' Text

'\n' Text.Whitespace

'PLIST_TEMPLATE' Name.Variable

'?=' Operator

'\${' Literal.String.Interpol

'PKGDIR' Name.Variable

'}' Literal.String.Interpol

'/pkg-plist' Text

'\n' Text.Whitespace

'PLIST_SUB' Name.Variable

'=' Operator

'\t' Text.Whitespace

'PYVER' Name.Variable

'=' Operator

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

':' Punctuation

'S' Name.Variable

'/python//' Punctuation

'}' Literal.String.Interpol
 '' Text.Whitespace
 '\\n' Literal.String.Escape

'\t' Text.Whitespace
 'PYVER_WITHPAT' Name.Variable
 '=' Operator
 '\${' Literal.String.Interpol
 'PORTVERSION' Name.Variable
 ':' Punctuation
 'S' Name.Variable
 './c/c/' Punctuation
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

'DEMODIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/share/examples/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

'TOOLS_DIR' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}'
 Literal.String.Interpol
 '/share/' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '\n' Text.Whitespace

\n' Text.Whitespace

'BIN_SCRIPTS' Name.Variable
 '=' Operator
 '\t' Text.Whitespace
 'idle' Text
 '' Text.Whitespace
 'pydoc' Text

```

''      Text.Whitespace
'python' Text
''      Text.Whitespace
'python-shared' Text
''      Text.Whitespace
'smtpd.py' Text
''      Text.Whitespace
'python-config' Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t' Text.Whitespace
'python-shared-config' Text
'\n'   Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='    Operator
'\t'   Text.Whitespace
'-e'   Text
''     Text.Whitespace
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single
''     Text.Whitespace
'\\n'  Literal.String.Escape

'\t\t' Text.Whitespace
'-e'   Text
      Text
''     Text.Whitespace
"'s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},'" Literal.String.Single
'\n\n' Text.Whitespace

'OPTIONS' Name.Variable
'='    Operator
'\t'   Text.Whitespace
'THREADS' Text
''     Text.Whitespace
"'Enable thread support'" Literal.String.Double
''     Text.Whitespace
'on'   Text
''     Text.Whitespace
'\\n'  Literal.String.Escape

'\t\t' Text.Whitespace
'HUGE_STACK_SIZE' Text
''     Text.Whitespace
"'Use a larger thread stack'" Literal.String.Double
''     Text.Whitespace
'off'  Text

```

```

''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'UCS4'  Text
''      Text.Whitespace
'''Use UCS4 for unicode support''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'PYMALLOC'
Text
''      Text.Whitespace
'''Use python\s internal malloc''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'IPV6'  Text
''      Text.Whitespace
'''Enable IPv6 support''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'FPECTL' Text
''      Text.Whitespace
'''Enable floating point exception handling''' Literal.String.Double
''      Text.Whitespace
'off'   Text
'\n\n'  Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'    Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS' Name.Variable
'='     Operator
'\t\t'  Text.Whitespace

```

```

'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'
      Text
''      Text.Whitespace
'python.1' Text
'\n'     Text.Whitespace

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='      Operator
''''     Literal.String.Double
'\n'     Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'IF_DEFAULT' Name.Variable
'='      Operator
'"@comment "' Literal.String.Double
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'  Name.Variable
'+='      Operator
'\t'     Text.Whitespace
'-D__wchar_t' Text
'='      Operator
'wchar_t' Text
'\n'     Text.Whitespace

'\n'     Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'     Text.Whitespace

```

```

'--with-threads'
Text
'\n'    Text.Whitespace

'CFLAGS'  Name.Variable
'+='     Operator
'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'     Literal.String.Interpol
'\n'     Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'  Name.Variable
'+='     Operator
'\t\t'   Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='      Operator
'0x20000' Text
'\n'     Text.Whitespace

'.else\n'  Comment.Preproc

'CFLAGS'  Name.Variable
'+='     Operator
'\t\t'   Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='      Operator
'0x100000' Text
'\n'     Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='     Operator
'\t\t'   Text.Whitespace
'LDFLAGS'  Name.Variable
'='      Operator
'"'       Literal.String.Double
'${'     Literal.String.Interpol
'PTHREAD_LIBS'
Name.Variable
'}'     Literal.String.Interpol
''      Literal.String.Double
'${'     Literal.String.Interpol
'LDFLAGS'  Name.Variable
'}'     Literal.String.Interpol

```

```

'''      Literal.String.Double
\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
\t'      Text.Whitespace
'--without-threads' Text
\n'      Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='      Operator
\t\t'    Text.Whitespace
'LDFLAGS' Name.Variable
'='      Operator
'''      Literal.String.Double
'${'     Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'      Literal.String.Interpol
'''      Literal.String.Double
\n'      Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

\n'      Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
\t'      Text.Whitespace
'--enable-unicode' Text
'='      Operator
'ucs4'    Text
\n'      Text.Whitespace

'.endif\n'  Comment.Preproc

\n'      Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

```

```

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'  '      Text.Whitespace
'--without-pymalloc' Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'X86_ONLY' Name.Variable
'='       Operator
''''      Literal.String.Double
'\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'X86_ONLY' Name.Variable
'='       Operator
''@comment '' Literal.String.Double
'\n'      Text.Whitespace

'.endif\n'
  Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'  '      Text.Whitespace
'32BIT_ONLY' Name.Variable
'='       Operator
''@comment '' Literal.String.Double
'\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
'  '      Text.Whitespace

```

```

'32BIT_ONLY' Name.Variable
'='      Operator
''''     Literal.String.Double
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS'  Name.Variable
'+='     Operator
' '      Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='     Operator
'900'   Literal.Number
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='
      Operator
'\t'    Text.Whitespace
'NO_NIS' Name.Variable
'='     Operator
'["@comment "' Literal.String.Double
'\n'    Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'\t'    Text.Whitespace
'NO_NIS' Name.Variable
'='     Operator
''''    Literal.String.Double
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

```

'CONFIGURE_ARGS' Name.Variable

'+= ' Operator

' ' Text.Whitespace

'--enable-ipv6' Text

'\n' Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable

'+= ' Operator

' ' Text.Whitespace

'--disable-ipv6' Text

'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable

'+= ' Operator

' ' Text.Whitespace

'--with-fpectl'

Text

'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if \${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable

'=' Operator

'plat-freebsd4' Text

' ' Text.Whitespace

'plat-freebsd5' Text

' ' Text.Whitespace

'plat-freebsd6' Text

'\n' Text.Whitespace

'.elif \${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable

'=' Operator

'plat-freebsd4' Text

' ' Text.Whitespace

```

'plat-freebsd5' Text
''      Text.Whitespace
'plat-freebsd7' Text
'\n'    Text.Whitespace

'.else\n'  Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
''      Text.Whitespace
'plat-freebsd6' Text
''      Text.Whitespace
'plat-freebsd7' Text
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'pre-patch' Name.Function
':'      Operator
'\n'    Text.Whitespace

'\t'
      Text.Whitespace
'${'    Literal.String.Interpol
'MKDIR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_W' Name.Variable
'}'     Literal.String.Interpol
'/Modules' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"'1s,^.*$$,#{${PREFIX}}/bin/${PYTHON_VERSION},'" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

```

```

\t'    Text.Whitespace
${'    Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
}'     Literal.String.Interpol
/Tools/scripts/pydoc' Text
''     Text.Whitespace
>'     Text
''

    Text.Whitespace
${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
}'     Literal.String.Interpol
/pydoc2.5' Text
\n\t'   Text.Whitespace
${'    Literal.String.Interpol
'SED'    Name.Variable
}'     Literal.String.Interpol
''     Text.Whitespace
'-e'    Text
''     Text.Whitespace
"'Is,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''     Text.Whitespace
\\n'    Literal.String.Escape

\t'    Text.Whitespace
${'    Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
}'     Literal.String.Interpol
/Tools/scripts/idle' Text
''     Text.Whitespace
>'     Text
''     Text.Whitespace
${'    Literal.String.Interpol
'WRKDIR'  Name.Variable
}'     Literal.String.Interpol
/idle2.5' Text
\n\t'   Text.Whitespace
${'    Literal.String.Interpol
'SED'    Name.Variable
}'     Literal.String.Interpol
''

    Text.Whitespace
'-e'    Text
''     Text.Whitespace
"'Is,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''     Text.Whitespace
\\n'    Literal.String.Escape

```

```

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/smtpd.py' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
"s,/usr/doc/python-docs-,$${PREFIX}/share/doc/python,g" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'
    Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'\s/^\( *prefixes = .*\\)\]$$\|1, "${X11BASE}"\]|g" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace

```

```

'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'
Text.Whitespace
"'s^\t\\(\\.ASDLGEN.*\\)\$\\t\${TRUE}|g'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
"'s*\t\\(\\.INSTALL_SCRIPT.*\\)python-config\$\$|#port \\|1'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${'      Literal.String.Interpol
'SED'     Name.Variable
'}'

```

```

    Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${}'   Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${}'   Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${}'   Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
'\n\t'  Text.Whitespace
'${}'   Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|"
Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${}'   Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${}'   Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text

```

```

'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
'-config' Text
'\n\n'   Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
        Literal.String.Interpol
'/Modules' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'ECHO'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
''      Text.Whitespace
'>>'   Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

'post-configure' Name.Function
':'     Operator
'\n'   Text.Whitespace

'\t'   Text.Whitespace
'${'   Literal.String.Interpol
'TAR'  Name.Variable
'}'    Literal.String.Interpol

```

```

''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-cf'
      Text
''      Text.Whitespace
'-'     Text
''      Text.Whitespace
':'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC'
      Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol

```

```

'SED'      Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(LDLIBRARY=\).*$$,\\1libpython$$$(VERSION).so," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(BLDLIBRARY=\).*$$,\\1-L. -lpython$$$(VERSION)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(CFLAGSFORSHARED=\).*$$,\\1$$$(CCSHARED)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,"
Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'  Name.Variable

```

'}' Literal.String.Interpol
 '/Makefile' Text
 '' Text.Whitespace
 '>' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'SHARED_WKRSRC' Name.Variable
 '}' Literal.String.Interpol
 '/Makefile' Text
 '\n\n' Text.Whitespace

 'pre-build' Name.Function
 ':' Operator
 '\n'
 Text.Whitespace

 '\t' Text.Whitespace
 'cd' Name.Builtin
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'SHARED_WKRSRC' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 '\\\n' Literal.String.Escape

 '\t' Text.Whitespace
 '\${' Literal.String.Interpol
 'SETENV' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'MAKE_ENV' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'MAKE' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 'lib' Text
 '\${' Literal.String.Interpol
 'PYTHON_VERSION' Name.Variable
 '}' Literal.String.Interpol
 '.so' Text
 '' Text.Whitespace
 'python' Text
 ';' Punctuation
 '' Text.Whitespace

```

'\\n'
    Literal.String.Escape

't'    Text.Whitespace
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-f'   Text
''     Text.Whitespace
'lib'  Text
'${'   Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'    Literal.String.Interpol
'.so'  Text
''     Text.Whitespace
'lib'  Text
'${'   Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'    Literal.String.Interpol
'.so.l' Text
':'    Punctuation
''     Text.Whitespace
'\\n'  Literal.String.Escape

't'    Text.Whitespace
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-f'   Text
''     Text.Whitespace
'python' Text
''     Text.Whitespace
'${'   Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
    Punctuation
'S'    Name.Variable
'/thon/thon-shared/' Punctuation
'}'    Literal.String.Interpol
'\n\n' Text.Whitespace

'pre-su-install' Name.Function
':'    Operator
'\n'   Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

```

```
\t'      Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace
```

```
'.for file in IN.py regen\n' Comment.Preproc
```

```
\t'      Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC'   Name.Variable
'}'
Literal.String.Interpol
'/Lib/'   Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'file'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'\\n'    Literal.String.Escape
```

```
\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'\n'     Text.Whitespace
```

```

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n' Text.Whitespace

'pre-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${'
    Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'|' Punctuation
'' Text.Whitespace
'${' Literal.String.Interpol
'AWK' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'\{ print $$0; } \\n\t/LIBDIR.*\\.py$$/ && !\\/bad/ { print $$0 "o"; print $$0 "c"; }\' Literal.String.Single
'\t' Text.Whitespace
'>' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text.Whitespace

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t' Text.Whitespace
'(' Operator
 '[' Operator
 '' Text.Whitespace
 '-f' Text
 '' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/.without_own_sha'

```

```

Text
''      Text.Whitespace
']'     Operator
''      Text.Whitespace
'&&'    Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${}'   Literal.String.Interpol
'GREP'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-v'    Text
''      Text.Whitespace
"lib-dynload/_sha" Literal.String.Single
''      Text.Whitespace
'${}'   Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${}'   Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'&&'    Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${}'   Literal.String.Interpol
'CAT'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${}'   Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${}'   Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol

```

```

')'      Operator
''       Text.Whitespace
'|'      Operator
''       Text.Whitespace
'${'    Literal.String.Interpol
'TRUE'   Name.Variable
'}'      Literal.String.Interpol
'\n\n'   Text.Whitespace

'post-install' Name.Function
':'      Operator
'\n'     Text.Whitespace

'\t@# install config providers\n' Comment

'\t'     Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
 '/'

      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'-config' Text
''       Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX'   Name.Variable
'}'      Literal.String.Interpol
'/bin'    Text
'\n\t'   Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation

```

'}' Literal.String.Interpol
'-config' Text
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\n' Text.Whitespace

'\t@#
shared version of executable and library\n' Comment

'\t' Text.Whitespace
'\${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'so.l' Text
' ' Text.Whitespace
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\n\t' Text.Whitespace
'cd' Name.Builtin
' ' Text.Whitespace
'\${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'; ' Punctuation
' ' Text.Whitespace
'\${' Literal.String.Interpol
'LN'
Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-sf' Text

```

''      Text.Whitespace
'lib'   Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so.1' Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t' Text.Whitespace
'lib'   Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so'   Text
'\n\t' Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/lib/lib' Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so'   Text
''

      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
'/config' Text
'\n\t' Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t' Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WKSRRC' Name.Variable
'}'     Literal.String.Interpol
'/'     Text

```

```

'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/bin'   Text
'\n\n'   Text.Whitespace

'\t@# additional files installing by ports\n'
Comment

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/pydoc2.5' Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/idle2.5' Text
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/smtpd2.5.py' Text
''      Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'     Literal.String.Interpol
'/bin'    Text
'\n\t'   Text.Whitespace
'@'      Text

```

```

'${'      Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'
    Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'      Literal.String.Interpol
'/man/man1' Text
'\n\t'   Text.Whitespace
'${'      Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WKSR' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python.man' Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'      Literal.String.Interpol
'/man/man1/' Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'     Text
'\n\n'   Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'     Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'f'      Text
''       Text.Whitespace
'in'
    Keyword
''       Text.Whitespace
'${'      Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'do'     Keyword

```

```

''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'TARGET' Name.Variable
'='     Operator
'^'     Literal.String.Backtick
'${'    Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'$$'    Name.Variable
'f'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-E'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'     Literal.String.Interpol
'^'     Literal.String.Backtick
';'
      Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'cd'    Name.Builtin
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/bin'  Text
''      Text.Whitespace
'&&'   Operator
''      Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-f'    Text
''      Text.Whitespace
'$$'    Name.Variable

```

'TARGET' Text
 '' Text.Whitespace
 '\$\$' Name.Variable
 'f' Text
 ';' Punctuation
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace
 'done' Keyword
 '\n' Text.Whitespace

 '.endif\n' Comment.Preproc

 '\n' Text.Whitespace

 '.if !defined(NOPORTDOCS)\n' Comment.Preproc

 '\t'
 Text.Whitespace
 '@' Text
 '\${' Literal.String.Interpol
 'MKDIR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TOOLS_DIR' Name.Variable
 '}' Literal.String.Interpol
 '\n\t' Text.Whitespace
 '@cd' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_WKSRVC' Name.Variable
 '}' Literal.String.Interpol
 ';' Punctuation
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-cf' Text
 '' Text.Whitespace
 '-' Text
 '' Text.Whitespace
 'Tools' Text
 '' Text.Whitespace
 '|' Punctuation
 '' Text.Whitespace

```

'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'('      Operator
'cd'     Name.Builtin
''       Text.Whitespace
'${'
        Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-xf'    Text
''       Text.Whitespace
'-'      Text
')'      Operator
'\n\t'   Text.Whitespace
'@'      Text
'${'     Literal.String.Interpol
'MKDIR'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'DEMODIR' Name.Variable
'}'      Literal.String.Interpol
'\n\t'   Text.Whitespace
'@cd'    Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Demo'  Text
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'
        Literal.String.Interpol
''       Text.Whitespace
'-cf'    Text
''       Text.Whitespace
'-'      Text
''       Text.Whitespace
'*'      Text

```

```

''      Text.Whitespace
'|'      Punctuation
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t'     Text.Whitespace
'('      Operator
'cd'     Name.Builtin
''      Text.Whitespace
'${'     Literal.String.Interpol
'DEMODIR' Name.Variable
'}'     Literal.String.Interpol
';'     Punctuation
''      Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'    Text
''      Text.Whitespace
'-'      Text
')'      Operator
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n\t'   Text.Whitespace
'@'      Text
'${'     Literal.String.Interpol
'CAT'    Name.Variable
'}'
    Literal.String.Interpol
''      Text.Whitespace
'${'     Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}'     Literal.String.Interpol
'\n\n'   Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
# Step 1 of 3: from Hakaru to Maple LO (linear operator)

toLO := module()
export
ModuleApply := proc(m, $)
    local h;
    h := gensym('h');
    _Env_HakaruSolve := false;
    LO(h, integrate(m, h, []))

```

```

end proc;

export
integrate := proc(m, h, loops :: list(name = range) := [], $)
  local x, n, i, res, l, br, m0;

  if m :: known_continuous then
    integrate_known(Int, Ints, 'xx', m, h, loops)
  elif m :: known_discrete then
    integrate_known(Sum, Sums, 'kk', m, h, loops)
  elif m :: 'Ret(anything)' then
    applyintegrand(h, mk_ary(op(1,m), loops))
  elif m :: 'Bind(anything, name, anything)' then
    res := eval(op(3,m), op(2,m) = mk_idx(op(2,m), loops));
    res := eval(Integrand(op(2,m), 'integrate'(res, x, loops)), x=h);
    integrate(op(1,m), res, loops);
  elif m :: 'specfunc(Msum)' and (nops(loops) = 0 or nops(m) = 1) then
    `+`(op(map(integrate, [op(m)], h, loops)))
  elif m :: 'Weight(anything, anything)' then
    foldl(product,
op(1,m), op(loops)) * integrate(op(2,m), h, loops)
  elif m :: t_pw_or_part then
    Partition:-AppPartOrPw
      ( proc(p)
        if not Partition:-ConditionsDepend(p, lhs~(loops)) then
          Partition:-Pmap(z->integrate(z,h,loops),p)
        end if;
      end proc
    , m, ['no_split_disj']);
  elif m :: t_case and not depends(op(1,m), map(lhs, loops)) then
    subsop(2=map(proc(b :: Branch(anything, anything))
      eval(subsop(2='integrate'(op(2,b), x, loops),b), x=h)
    end proc,
    op(2,m)),
    m);
  elif m :: 'LO(name, anything)' then
    eval(op(2,m), op(1,m) = h)
  elif m :: 'Plate(nonnegint, name, anything)' then
    # Unroll Plate when the bound is known. We unroll Plate here (instead
    # of unrolling Ints in reduce, for example) because we have no other
    # way to integrate certain Plates, namely those whose
bodies' control
    # flows depend on the index.
    x := mk_sym('pp', h);
    x := [seq(cat(x,i), i=0..op(1,m)-1)];
    if op(1,m) = 0 then
      res := undefined;
    else

```

```

if op(1,m) = 1 then
  res := op(1,x);
else
  res := idx(x,op(2,m));
#   res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),
#                     op(1,x));
end if;
res := mk_idx(res, loops);
end if;
res := applyintegrand(h, mk_ary('ary'(op(1,m), op(2,m), res), loops));
for i from op(1,m) to 1 by -1 do
  res := integrate(eval(op(3,m), op(2,m)=i-1),
                  Integrand(op(i,x), res), loops);
end do;
res
elif m :: 'Plate(anything, name, anything)' then
  integrate(op(3,m), h, [op(2,m)=0..op(1,m)-1, op(loops)])
elif m :: 'Context(anything, anything)' then
  applyop(integrate, 2, m, h, loops)
elif h :: applicable then
  x := gensym('xa');
  'integrate'(m, Integrand(x,
h(x)), loops)
else
  'procname(_passed)'
end if
end proc;

local
integrate_known := proc(make, makes, var, m, h, loops :: list(name=range), $)
  local x, dens, bds;
  x := mk_sym(var, h);
  dens := density[op(0,m)](op(m));
  bds := bounds[op(0,m)](op(m));
  if loops = [] then
    make(dens(x) * applyintegrand(h, x), x = bds);
  else
    makes(foldl(product, dens(mk_idx(x,loops)), op(loops))
          * applyintegrand(h, x),
          x, bds, loops)
  end if;
end proc;
end module; #toLO
'# Teach Maple (through depends and eval) about our new binding forms.\n' Comment.Single

'# forall bind from 1st arg to 2nd arg.\n' Comment.Single

```

Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element\n' Comment.Single

of the 4th arg to the other elements on the left and to the 3rd arg.\n' Comment.Single

\n' Text.Whitespace

^depends/forall' Name

' ' Text.Whitespace

':=' Operator

' ' Text.Whitespace

'proc' Keyword

'(' Punctuation

'bvar' Name

',' Operator

' ' Text.Whitespace

'pred' Name

',' Operator

' ' Text.Whitespace

'x' Name

',' Operator

' ' Text.Whitespace

'\$' Operator

'),' Punctuation

\n ' Text.Whitespace

'depends' Name

'(' Punctuation

'pred' Name

',' Operator

' ' Text.Whitespace

'x' Name

' ' Text.Whitespace

'minus'

Keyword

' ' Text.Whitespace

'convert' Name.Builtin

'(' Punctuation

'bvar' Name

',' Operator

' ' Text.Whitespace

'''' Punctuation

'set' Name

'''' Punctuation

'))' Punctuation

\n' Text.Whitespace

'end' Keyword

' ' Text.Whitespace

'proc' Keyword

```

':'      Operator
'\n\n'   Text.Whitespace

^depends/Ints` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
'body'   Name
';'      Operator
''       Text.Whitespace
'bvar'   Name
';'      Operator
''       Text.Whitespace
'rng'    Name
';'      Operator
''       Text.Whitespace
'loops'  Name
';'      Operator
''       Text.Whitespace
'x'      Name
';'      Operator
''       Text.Whitespace
'y'      Name
';'      Operator
''       Text.Whitespace
'$'
Operator
')'      Punctuation
'\n '    Text.Whitespace
'local'  Keyword
''       Text.Whitespace
'xx'     Name
';'      Operator
''       Text.Whitespace
'i'      Name
';'      Punctuation
'\n '    Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'nargs'  Name
''       Text.Whitespace
'≡'     Operator
''       Text.Whitespace
'5'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword

```

```
\n ' Text.Whitespace
'xx' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'x' Name
';' Punctuation
'' Text.Whitespace
'# y is unused and x lists the variables to look for\n' Comment.Single
```

```
' ' Text.Whitespace
'else' Keyword
\n ' Text.Whitespace
'xx' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'y'
Name
';' Punctuation
'' Text.Whitespace
'# x is some KB and y lists the variables to look for\n' Comment.Single
```

```
' ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'depends' Name
'(' Punctuation
'x' Name
';' Operator
'' Text.Whitespace
'y' Name
')' Punctuation
'' Text.Whitespace
'then' Keyword
'' Text.Whitespace
'return' Keyword
'' Text.Whitespace
'true' Name
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
```

```

';'      Punctuation
'\n '    Text.Whitespace
"# don't remove bvar from xx!\n" Comment.Single

' '      Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'depends' Name
'('      Punctuation
'body'   Name
  Name
';'      Operator
''       Text.Whitespace
'xx'     Name
''       Text.Whitespace
'minus'  Keyword
''       Text.Whitespace
'{'      Punctuation
'bvar'   Name
'})'     Punctuation
''       Text.Whitespace
'then'   Keyword
''       Text.Whitespace
'return' Keyword
''       Text.Whitespace
'true'   Name
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'i'      Name
''       Text.Whitespace
'from'   Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'loops'  Name
')'      Punctuation
''       Text.Whitespace
'to'     Keyword
''       Text.Whitespace
'1'      Literal.Number.Integer
''       Text.Whitespace
'by'     Keyword

```

```

''      Text.Whitespace
'_'
Operator
'1'     Literal.Number.Integer
''      Text.Whitespace
'do'    Keyword
'\n '   Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'depends' Name
'('     Punctuation
'op'    Name.Builtin
'(['    Punctuation
'i'     Name
';'     Operator
'2'     Literal.Number.Integer
']'     Punctuation
';'     Operator
'loops' Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'xx'    Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'return' Keyword
''      Text.Whitespace
'true'  Name
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n '   Text.Whitespace
'xx'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'xx'
Name
''      Text.Whitespace
'minus' Keyword
''      Text.Whitespace
'{'     Punctuation
'op'    Name.Builtin
'(['    Punctuation

```

'i' Name
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 '});' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'rng' Name
 ';' Operator
 '' Text.Whitespace
 'xx' Name
 ')' Punctuation
 '\n' Text.Whitespace

 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Operator
 '\n' Text.Whitespace

 '^depends/Sums`' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 '^depends/Ints`' Name
 ')' Punctuation
 ':' Operator
 '\n' Text.Whitespace

 '^depends/ints`' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 '^depends/Ints`' Name
 ')' Punctuation

'.' Operator
'\n' Text.Whitespace

^depends/sums` Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^depends/Ints` Name
)' Punctuation
'.' Operator
'\n\n' Text.Whitespace

^eval/forall` Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'eqs' Name
';' Operator
'' Text.Whitespace
'\$' Operator
)' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'
' Text.Whitespace
'bvar' Name
';' Operator
'' Text.Whitespace
'pred' Name
';' Punctuation
'\n ' Text.Whitespace
'bvar' Name
';' Operator
'' Text.Whitespace
'pred' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'e' Name

```

');' Punctuation
'\n ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'0' Literal.Number.Integer
';' Operator
'e' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'eqs' Name
')(' Punctuation
'BindingTools' Name
':' Operator
'-' Operator
'generic_evalat' Name
'(' Punctuation
'bvar' Name
';' Operator
'' Text.Whitespace
'pred' Name
';'
Operator
'' Text.Whitespace
'eqs' Name
'))' Punctuation
'\n' Text.Whitespace

'end' Keyword
'' Text.Whitespace
'proc' Keyword
':' Operator
'\n\n' Text.Whitespace

`eval/Ints` Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'eqs' Name
';' Operator
'' Text.Whitespace

```

'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'body' Name
';' Operator
'' Text.Whitespace
'bvar' Name
';' Operator
'' Text.Whitespace
'rng' Name
';' Operator
'' Text.Whitespace
'loops' Name
';' Operator
'' Text.Whitespace
'n' Name
';' Operator
','
' ' Text.Whitespace
'i' Name
';' Punctuation
'\n ' Text.Whitespace
'body' Name
';' Operator
'' Text.Whitespace
'bvar' Name
';' Operator
'' Text.Whitespace
'rng' Name
';' Operator
'' Text.Whitespace
'loops' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
'..' Punctuation
'4' Literal.Number.Integer
';' Operator
'' Text.Whitespace
'e' Name
');' Punctuation
'\n ' Text.Whitespace
'bvar' Name

```

';'      Operator
''       Text.Whitespace
'body'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'BindingTools' Name
':'      Operator
'-'      Operator
'generic_evalat' Name
'('      Punctuation
'bvar'
    Name
';'      Operator
''       Text.Whitespace
'body'   Name
';'      Operator
''       Text.Whitespace
'eqs'    Name
');'     Punctuation
'\n '    Text.Whitespace
'eval'   Name.Builtin
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'0'      Literal.Number.Integer
';'      Operator
'e'      Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'eqs'    Name
')('     Punctuation
'body'   Name
';'      Operator
''       Text.Whitespace
'bvar'   Name
';'      Operator
'\n      ' Text.Whitespace
'BindingTools' Name
':'      Operator
'-'      Operator
'generic_evalatstar' Name
'('      Punctuation
'rng'    Name
';'      Operator
''       Text.Whitespace
'loops'  Name

```

```

';      Operator
''      Text.Whitespace
'eqs'   Name
')'     Punctuation
';
  Operator
'\n     ' Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'5'     Literal.Number.Integer
'..'    Punctuation
'-'     Operator
'1'     Literal.Number.Integer
';      Operator
'e'     Name
'))'    Punctuation
'\n'    Text.Whitespace

'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
':'     Operator
'\n'    Text.Whitespace

^eval/Sums` Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'eval'  Name.Builtin
'('     Punctuation
^eval/Ints` Name
')'     Punctuation
':'     Operator
'\n'    Text.Whitespace

^eval/ints` Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'eval'  Name.Builtin
'('     Punctuation
^eval/Ints` Name
')'     Punctuation
':'     Operator
'\n'    Text.Whitespace

^eval/sums` Name
''      Text.Whitespace

```

```

':='
    Operator
''    Text.Whitespace
'eval'  Name.Builtin
'('    Punctuation
'^eval/Ints`' Name
')'    Punctuation
':'    Operator
'\n\n'  Text.Whitespace

'^eval/Int`' Name
''    Text.Whitespace
':='  Operator
''    Text.Whitespace
'proc'  Keyword
'('    Punctuation
'e'    Name
';'    Operator
''    Text.Whitespace
'eqs'  Name
';'    Operator
''    Text.Whitespace
'$'    Operator
')'    Punctuation
'\n '  Text.Whitespace
'local'  Keyword
''    Text.Whitespace
'body'  Name
';'    Operator
''    Text.Whitespace
'bound'  Name
';'    Operator
''    Text.Whitespace
'bvar'  Name
';'    Punctuation
'\n '  Text.Whitespace
'body'  Name
';'    Operator
''    Text.Whitespace
'bound'  Name
''    Text.Whitespace
':='  Operator
'
'
'    Text.Whitespace
'op'  Name.Builtin
'('  Punctuation
'1'  Literal.Number.Integer
'..' Punctuation

```

'2' Literal.Number.Integer
 ',' Operator
 '' Text.Whitespace
 'e' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'name' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'BindingTools' Name
 ':' Operator
 '-' Operator
 'generic_evalat' Name
 '(' Punctuation
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'eqs'
 Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '^=' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace

'bvar' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'lhs' Name.Builtin
'(' Punctuation
'bound' Name
');' Punctuation
'\n ' Text.Whitespace
'bvar' Name
';' Operator
'' Text.Whitespace
'body' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'BindingTools' Name
':' Operator
'-' Operator
'generic_evalat' Name
'(' Punctuation
'bvar' Name
';' Operator
'' Text.Whitespace
'body' Name
';' Operator
'' Text.Whitespace
'eqs'
Name
');' Punctuation
'\n ' Text.Whitespace
'bound' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'bvar' Name
'' Text.Whitespace
'≡' Operator
'' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'rhs' Name.Builtin
'(' Punctuation
'bound' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'eqs' Name

');' Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bound' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'BindingTools' Name
 ':' Operator
 '-' Operator
 'generic_evalatstar' Name
 '(' Punctuation
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bound' Name
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'eqs' Name
 ')((' Punctuation
 'body' Name
 ';' Operator
 '' Text.Whitespace
 'bound' Name
 ';' Operator

' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'eval' Name.Builtin
'([' Punctuation
'op' Name.Builtin
'(' Punctuation
'3' Literal.Number.Integer
'..' Punctuation
'-' Operator
'1' Literal.Number.Integer
';' Operator
'e'

Name

')] Punctuation
';' Operator
' ' Text.Whitespace
'eqs' Name
')' Punctuation
'\n' Text.Whitespace

'end' Keyword
' ' Text.Whitespace
'proc' Keyword
';' Operator
'\n' Text.Whitespace

^eval/Sum` Name

' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int` Name
)' Punctuation
';' Operator
'\n' Text.Whitespace

^eval/Product` Name

' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int` Name
)' Punctuation
';' Operator
'\n' Text.Whitespace

^eval/int` Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int` Name
)'
 Punctuation
'.' Operator
'\n' Text.Whitespace

^eval/sum` Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int` Name
)' Punctuation
'.' Operator
'\n' Text.Whitespace

^eval/product` Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
^eval/Int` Name
)' Punctuation
'.' Operator
'\n\n' Text.Whitespace

#####\n' Comment.Single

'\n' Text.Whitespace

'Loop' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'module' Keyword
' ' Text.Whitespace
'()' Punctuation
'\n ' Text.Whitespace
'option' Keyword

```

''      Text.Whitespace
'package' Name
';'
      Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'intssums' Name
';'     Operator
''      Text.Whitespace
'enter_piecewise' Name
';'     Operator
''      Text.Whitespace
'wrap'   Name
';'     Operator
'\n '   Text.Whitespace
't_peel' Name
';'     Operator
''      Text.Whitespace
'do_peel' Name
';'     Operator
''      Text.Whitespace
'do_split' Name
';'     Operator
''      Text.Whitespace
'do_graft' Name
';'     Operator
''      Text.Whitespace
'do_rebase_lower' Name
';'     Operator
''      Text.Whitespace
'do_rebase_upper' Name
';'     Operator
'\n '   Text.Whitespace
'Binder' Name
';'     Operator
''      Text.Whitespace
'Stmt'   Name
';'     Operator
''      Text.Whitespace
't_binder' Name
';'     Operator
''      Text.Whitespace
't_stmt' Name
';'
      Operator
''      Text.Whitespace
't_exp' Name

```

```

';      Operator
'\n    ' Text.Whitespace
'ModuleLoad' Name
';      Punctuation
'\n    ' Text.Whitespace
'export' Keyword
'\n    ' Text.Whitespace
'# These first few are smart constructors (for themselves):\n' Comment.Single

'      ' Text.Whitespace
'ints'   Name
';      Operator
''      Text.Whitespace
'sums'   Name
';      Operator
'\n    ' Text.Whitespace
'# while these are "proper functions"\n' Comment.Single

'      ' Text.Whitespace
'mk_HArray' Name
';      Operator
''      Text.Whitespace
'genLoop' Name
';      Operator
''      Text.Whitespace
'unproducts' Name
';      Operator
''      Text.Whitespace
'unproduct' Name
';      Operator
'\n    ' Text.Whitespace
'peel'   Name
';      Operator
''      Text.Whitespace
'split'  Name
';      Operator
''

    Text.Whitespace
'graft'  Name
';      Operator
''      Text.Whitespace
'rebase_lower' Name
';      Operator
''      Text.Whitespace
'rebase_upper' Name
';      Operator
''      Text.Whitespace
'Print'  Name

```

```

';      Punctuation
'\n '   Text.Whitespace
'# these names are not assigned (and should not be). But they are\n' Comment.Single

' '     Text.Whitespace
'# used as global names, so document that here.\n' Comment.Single

' '     Text.Whitespace
'global' Keyword
''      Text.Whitespace
'Ints'  Name
';      Operator
''      Text.Whitespace
'Sums'  Name
';      Operator
''      Text.Whitespace
'csgn'  Name
';      Operator
''      Text.Whitespace
'sum'   Name
';      Operator
''      Text.Whitespace
'signum' Name
';      Punctuation
'\n '   Text.Whitespace
'uses'  Keyword
''      Text.Whitespace
'Hakaru'
  Name
';      Operator
''      Text.Whitespace
'KB'    Name
';      Operator
''      Text.Whitespace
'Utilities' Name
';      Punctuation
'\n\n ' Text.Whitespace
't_binder' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
''''    Punctuation
'Binder' Name
'('     Punctuation
'identical' Name
'('     Punctuation
'product' Name
';      Operator

```

```

''      Text.Whitespace
'Product' Name
';'     Operator
''      Text.Whitespace
'sum'   Name
';'     Operator
''      Text.Whitespace
'Sum'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
't_kb'  Name
')'     Punctuation
''''    Punctuation
';'     Punctuation
'\n '   Text.Whitespace
't_stmt' Name
' '     Text.Whitespace
':='    Operator
''      Text.Whitespace
''''    Punctuation
'Stmt'
      Name
'('     Punctuation
'anything' Name
';'     Operator
''      Text.Whitespace
'list'  Name
';'     Operator
''      Text.Whitespace
'list'  Name
')'     Punctuation
''''    Punctuation
';'     Punctuation
'\n '   Text.Whitespace
't_exp' Name
' '     Text.Whitespace
':='    Operator
''      Text.Whitespace
''''    Punctuation
'{'     Punctuation
'Stmt'  Name
'('     Punctuation
'identical' Name
'('     Punctuation
'exp'   Name
')'     Punctuation
';'     Operator

```

'' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'Stmt' Name
 '(' Punctuation
 'identical' Name
 '(' Punctuation
 '^' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '['
 Punctuation
 'anything' Name
 ']' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[D)]' Punctuation
 '""' Punctuation
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'ints' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 '' Text.Whitespace
 'intssums' Name
 '(' Punctuation
 '""' Punctuation
 'ints' Name
 '""' Punctuation
 ';' Operator
 '' Text.Whitespace
 '""' Punctuation
 'int' Name
 '""' Punctuation
 ';' Operator
 '' Text.Whitespace
 '_passed' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword

'' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'sums' Name
 '' Text.Whitespace
 ':=' Operator
 ''
 Text.Whitespace
 'proc' Keyword
 '()' Punctuation
 '' Text.Whitespace
 'intssums' Name
 '(' Punctuation
 "" Punctuation
 'sums' Name
 "" Punctuation
 ':' Operator
 '' Text.Whitespace
 "" Punctuation
 'sum' Name
 "" Punctuation
 ':' Operator
 '' Text.Whitespace
 '_passed' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'Print' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'kind' Name
 '::' Operator
 'identical' Name
 '(' Punctuation
 'Ints' Name
 ':' Operator
 'Sums' Name
 ':' Operator
 'ints' Name
 ':' Operator

'sums' Name
')' Punctuation
';'
Operator
'e' Name
';' Operator
'v' Name
'::' Operator
'name' Name
';' Operator
'r0' Name
'::' Operator
'range' Name
';' Operator
'rs' Name
'::' Operator
'list' Name
'(' Punctuation
'name' Name
'=' Operator
'range' Name
')' Punctuation
';' Operator
'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'k' Name
';' Punctuation
'\n ' Text.Whitespace
'k' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'StringTools' Name
 '[' Punctuation
'Capitalize' Name
'](' Punctuation
'StringTools' Name
 '[' Punctuation
'Chop' Name
'](' Punctuation
'convert' Name.Builtin
'(' Punctuation
'kind' Name
';'

Operator

'string' Name

'))'; Punctuation

\n ' Text.Whitespace

'k' Name

' ' Text.Whitespace

':=' Operator

' ' Text.Whitespace

'parse' Name.Builtin

(' Punctuation

'cat' Name.Builtin

(' Punctuation

""`print/"" Literal.String

;' Operator

'eval' Name.Builtin

(' Punctuation

'k' Name

)' Punctuation

;' Operator

""`"" Literal.String

));' Punctuation

\n ' Text.Whitespace

'eval' Name.Builtin

(' Punctuation

'k' Name

)((' Punctuation

'e' Name

;' Operator

'v' Name

'[' Punctuation

'op' Name.Builtin

(' Punctuation

'rs' Name

)]' Punctuation

'=' Operator

'r0' Name

);' Punctuation

\n ' Text.Whitespace

'end' Keyword

' ' Text.Whitespace

'proc'

Keyword

;' Punctuation

\n\n ' Text.Whitespace

'intssums' Name

' ' Text.Whitespace

':=' Operator

' ' Text.Whitespace

'proc' Keyword
 '(' Punctuation
 'makes' Name
 '::' Operator
 'name' Name
 ';' Operator
 '' Text.Whitespace
 'make' Name
 '::' Operator
 'name' Name
 ';' Operator
 '\n ' Text.Whitespace
 'e' Name
 '::' Operator
 'anything' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '::' Operator
 'name' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 '::' Operator
 'range' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 '::' Operator
 'list' Name
 '(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'kb' Name
 '::' Operator
 't_kb' Name
 '=' Operator
 'empty' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace

'local' Keyword
 '' Text.Whitespace
 't' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ';' Operator
 '' Text.Whitespace
 'kb2' Name
 ';' Operator
 '' Text.Whitespace
 'w0' Name
 ';' Operator
 '' Text.Whitespace
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 't' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^if' Name
 '(' Punctuation
 'make' Name
 '=
 Operator
 'int' Name
 ';' Operator
 '' Text.Whitespace
 'HReal' Name
 '(' Punctuation
 'open_bounds' Name
 '(' Punctuation
 'rr' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'HInt' Name
 '(' Punctuation
 'closed_bounds' Name
 '(' Punctuation
 'rr' Name

'));' Punctuation
 '\n ' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ';' Operator
 '' Text.Whitespace
 'kb2' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'genLoop' Name
 '(' Punctuation
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'Integrand' Name
 ""
 Punctuation
 '(' Punctuation
 'x' Name
 ';' Operator
 'e' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'w0' Name
 ';' Operator
 '' Text.Whitespace
 'pp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'unproducts' Name
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace

'l' Name
 ';' Operator
 '' Text.Whitespace
 'kb2' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'w0' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 '''' Punctuation
 'makes'
 Name
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'l' Name
 ')' Punctuation
 '''' Punctuation
 '\n ' Text.Whitespace
 'else' Keyword
 '\n ' Text.Whitespace
 'pp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '''' Punctuation
 'make' Name
 '''' Punctuation
 '(' Punctuation
 'pp' Name
 ';' Operator
 '' Text.Whitespace

'x' Name
 '≡' Operator
 'r' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 'l' Name
 '' Text.Whitespace
 'do'
 Keyword
 '' Text.Whitespace
 'pp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 "" Punctuation
 'product' Name
 "" Punctuation
 '(' Punctuation
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'NewSLO' Name
 ':' Operator
 '-' Operator
 'simplify_factor_assuming' Name
 '(' Punctuation
 'w0' Name
 '' Text.Whitespace
 '*' Operator
 '' Text.Whitespace
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name

```

);' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
'\n ' Text.Whitespace
'end'
    Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n\n ' Text.Whitespace
'mk_HArray' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
't' Name
'::' Operator
't_type' Name
';' Operator
'' Text.Whitespace
'loops' Name
'::' Operator
'list' Name
'(' Punctuation
'name' Name
'=' Operator
'range' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'res' Name
';' Operator
'' Text.Whitespace
'i' Name
';' Punctuation
'\n ' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace

```

't' Name
';' Punctuation
'\n ' Text.Whitespace
'for' Keyword
'' Text.Whitespace
'i' Name
'' Text.Whitespace
'in' Keyword
'' Text.Whitespace
'loops' Name
'' Text.Whitespace
'do' Keyword
'' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'HArray' Name
'(' Punctuation
'res' Name
')' Punctuation
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'do' Keyword
';' Punctuation
'\n ' Text.Whitespace
'res' Name
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n\n ' Text.Whitespace
'genLoop' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'loops' Name
'::' Operator
'list' Name

'(' Punctuation
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 '::' Operator
 't_kb' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 'rng' Name
 ';' Operator
 '' Text.Whitespace
 'ind' Name
 ';' Operator
 '' Text.Whitespace
 'do_subst' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'kb1' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Punctuation
 '\n
 ' ' Text.Whitespace
 'rng' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'table' Name.Builtin
 '());' Punctuation
 '\n ' Text.Whitespace
 'ind' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace

'table' Name.Builtin
 '());' Punctuation
 '\n ' Text.Whitespace
 'do_subst' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'e' Name
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'foldl' Name
 '(((' Punctuation
 'e' Name
 ';' Operator
 'eq' Name
 ')' Punctuation
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'eval' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 'lhs'
 Name.Builtin
 '(' Punctuation
 'eq' Name
 ')' Punctuation
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'loops' Name
 ')' Punctuation
 ':=' Operator
 'rhs' Name.Builtin
 '(' Punctuation
 'eq' Name
 ')))' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'e' Name
 ';' Operator
 '' Text.Whitespace

```

'entries' Name.Builtin
 '(' Punctuation
 'ind' Name
 ',' Operator
 '' Text.Whitespace
 "" Punctuation
 'pairs' Name
 "" Punctuation
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 'from' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'loops' Name
 ')'
 Punctuation
 '' Text.Whitespace
 'to' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'by' Keyword
 '' Text.Whitespace
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'rng' Name
 '[' Punctuation
 'i' Name
 ']' Punctuation
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'do_subst' Name
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 'i' Name
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation

```

```

';'      Operator
'loops'  Name
'));'    Punctuation
'\n      ' Text.Whitespace
'ind'    Name
'['      Punctuation
'i'      Name
']'      Punctuation
';'      Operator
''       Text.Whitespace
'kb1'    Name
''
    Text.Whitespace
':='     Operator
''       Text.Whitespace
'genType' Name
'('      Punctuation
'op'     Name.Builtin
'(['     Punctuation
'i'      Name
';'      Operator
'1'      Literal.Number.Integer
']'      Punctuation
';'      Operator
'loops'  Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'Hint'   Name
'('      Punctuation
'closed_bounds' Name
'('      Punctuation
'rng'    Name
'['      Punctuation
'i'      Name
']]')    Punctuation
';'      Operator
'\n      ' Text.Whitespace
'kb1'    Name
';'      Operator
''       Text.Whitespace
'_rest'  Name
');'     Punctuation
'\n      ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
';'      Punctuation

```

\n ' Text.Whitespace
 'do_subst' Name
 '(' Punctuation
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'zip' Name
 '(' Punctuation
 '^=' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'entries' Name.Builtin
 '(' Punctuation
 'ind' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'nolist' Name
 "" Punctuation
 ')]' Punctuation
 ';' Operator
 \n ' Text.Whitespace
 '[' Punctuation
 'entries' Name.Builtin
 '(' Punctuation
 'rng' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'nolist' Name
 "" Punctuation
 ')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 \n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 \n\n ' Text.Whitespace
 'unproducts'
 Name
 '' Text.Whitespace
 ':=' Operator

```

''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'w'     Name
';'     Operator
''      Text.Whitespace
'x'     Name
'::'    Operator
'name'  Name
';'     Operator
''      Text.Whitespace
'loops' Name
'::'    Operator
'list'  Name
'('     Punctuation
'name'  Name
'='     Operator
'range' Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'kb'    Name
'::'    Operator
't_kb'  Name
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'w0'    Name
';'     Operator
''      Text.Whitespace
'pp'    Name
';'     Operator
''      Text.Whitespace
'j'     Name
';'     Operator
''      Text.Whitespace
'w1'    Name
''      Name
';'     Operator
''      Text.Whitespace
'w2'    Name
';'     Operator
''      Text.Whitespace
'loop'  Name

```

```

';'      Punctuation
'\n '    Text.Whitespace
'w0'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
';'      Punctuation
'\n '    Text.Whitespace
'pp'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'w'      Name
';'      Punctuation
'\n '    Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'j'      Name
''       Text.Whitespace
'from'   Keyword
''       Text.Whitespace
'nops'   Name.Builtin
'('      Punctuation
'loops'  Name
')'      Punctuation
''       Text.Whitespace
'to'     Keyword
''       Text.Whitespace
'1'      Literal.Number.Integer
''       Text.Whitespace
'by'
Keyword
''       Text.Whitespace
'-'     Operator
'1'     Literal.Number.Integer
''      Text.Whitespace
'do'    Keyword
'\n '   Text.Whitespace
'w1'    Name
';'     Operator
''      Text.Whitespace
'pp'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation

```

```

'unproduct' Name
 '(' Punctuation
 'pp' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'j' Name
 ';' Operator
 'loops' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '^*' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '
 ' Text.Whitespace
 'kb' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 '# separate out each of the factors in w1, as they might have different\n' Comment.Single

 ' ' Text.Whitespace
 '# variable dependencies, which can be exploited by other routines\n' Comment.Single

 ' ' Text.Whitespace
 'w2' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'w1' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'list' Name
 "" Punctuation
 ';' Operator

```

'' Text.Whitespace
 "" Punctuation
 `*` Name
 "" Punctuation
 ');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'loop' Name
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 '[' Punctuation
 'op'
 Name.Builtin
 '(' Punctuation
 'j' Name
 '+' Operator
 '1' Literal.Number.Integer
 '..' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'loops' Name
 ')]' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'w2' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'map' Name.Builtin
 '((Punctuation
 'w' Name
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'product' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'w' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '≡' Operator

```

'idx'    Name
'('      Punctuation
'x'      Name
','      Operator
'lhs'    Name.Builtin
'('      Punctuation
'loop'
    Name
')))'    Punctuation
','      Operator
''       Text.Whitespace
'loop'   Name
')))'    Punctuation
','      Operator
''       Text.Whitespace
'w2'     Name
');'     Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
','      Punctuation
'\n '    Text.Whitespace
'w0'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'w0'     Name
''       Text.Whitespace
'*'      Operator
''       Text.Whitespace
'^*^'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'w2'     Name
')))'    Punctuation
'\n '    Text.Whitespace
'# w0 := w0 * foldl(product, w1, op(j+1..-1, loops));\n' Comment.Single

' '      Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
','      Punctuation
'\n '
    Text.Whitespace
'# Rewrite ... * piecewise(i<=kk-1, xs^2, 1)\n' Comment.Single

```

```

' ' Text.Whitespace
'# to ... * xs ^ (2*piecewise(i<=kk-1, 1))\n' Comment.Single

' ' Text.Whitespace
'# because the latter is easier to integrate and recognize with respect to xs\n' Comment.Single

' ' Text.Whitespace
'pp' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'for_poly' Name
'(' Punctuation
'pp' Name
';' Operator
'' Text.Whitespace
'# TODO: move this rewrite into eval_factor (then remove for_poly?)?\n' Comment.Single

' ' Text.Whitespace
'proc' Keyword
'' Text.Whitespace
'(' Punctuation
'p' Name
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'n' Name
';' Operator
'' Text.Whitespace
's' Name
';' Operator
''

Text.Whitespace
'r' Name
';' Punctuation
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'p' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'''' Punctuation
'And' Name
'(' Punctuation
'specfunc' Name

```

```

 '('      Punctuation
 'piecewise' Name.Builtin
 ')'      Punctuation
 ';'      Operator
 ''       Text.Whitespace
 'anyfunc' Name
 '('      Punctuation
 'freeof' Name
 '('      Punctuation
 'x'      Name
 ')'      Punctuation
 ';'      Operator
 ''       Text.Whitespace
 'anything' Name
 ';'      Operator
 ''       Text.Whitespace
 '1'      Literal.Number.Integer
 '))'     Punctuation
 '"""     Punctuation
 ''       Text.Whitespace
 'then'   Keyword
 '\n     ' Text.Whitespace
 'n'     Name
 ''      Text.Whitespace
 ':='    Operator
 ''      Text.Whitespace
 'indets'
     Name.Builtin
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 '1'     Literal.Number.Integer
 ';'     Operator
 'p'     Name
 ')'     Punctuation
 ';'     Operator
 'name'  Name
 ');'    Punctuation
 '\n    ' Text.Whitespace
 'if'    Keyword
 ''      Text.Whitespace
 'op'    Name.Builtin
 '('     Punctuation
 '2'     Literal.Number.Integer
 ';'     Operator
 'p'     Name
 ')'     Punctuation
 ''      Text.Whitespace

```

'::' Operator
 '' Text.Whitespace
 '{' Punctuation
 '''' Punctuation
 'exp' Name
 '(' Punctuation
 'anything' Name
 ')' Punctuation
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 '^' Name
 '''' Punctuation
 '(' Punctuation
 '''' Punctuation
 'freeof' Name
 '''' Punctuation
 '('
 Punctuation
 'n' Name
 ')' Punctuation
 ';' Operator
 '''' Punctuation
 'anything' Name
 '''' Punctuation
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' Text.Whitespace
 's' Name
 ';' Operator
 '' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'selectremove' Name.Builtin
 '(' Punctuation
 'depends' Name
 ';' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator

'-' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'p' Name
 ')' Punctuation
 ';' Operator
 "" Punctuation
 'list' Name
 "" Punctuation
 ','
 Operator
 "" Punctuation
 '^*`' Name
 "" Punctuation
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'n' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'subsop' Name.Builtin
 '(' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '^*`' Name
 '(' Punctuation
 'piecewise' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'p' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '^*`' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 's' Name
 ')))' Punctuation
 ';' Operator
 '' Text.Whitespace

```

'op'    Name.Builtin
'('     Punctuation
'r'
    Name
'))'    Punctuation
','     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
','     Operator
'p'     Name
'))'    Punctuation
'\n'    ' Text.Whitespace
'else'  Keyword
'\n'    ' Text.Whitespace
's'     Name
','     Operator
''      Text.Whitespace
'r'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'depends' Name
','     Operator
''      Text.Whitespace
'convert' Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
','     Operator
'p'     Name
')'     Punctuation
','     Operator
''''    Punctuation
'list'  Name
''''    Punctuation
','     Operator
''''    Punctuation
'^*\'
    Name
''''    Punctuation
')'     Punctuation
','     Operator
''      Text.Whitespace

```

'n' Name
');' Punctuation
\n ' Text.Whitespace
`*` Name
 '(' Punctuation
'op' Name.Builtin
 '(' Punctuation
'r' Name
'))' Punctuation
'' Text.Whitespace
'^' Operator
'' Text.Whitespace
'piecewise' Name.Builtin
 '(' Punctuation
'op' Name.Builtin
 '(' Punctuation
'1' Literal.Number.Integer
';' Operator
'p' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'1' Literal.Number.Integer
')' Punctuation
\n ' Text.Whitespace
`*` Operator
'' Text.Whitespace
`if` Name
 '(' Punctuation
'nops' Name.Builtin
 '(' Punctuation
's' Name
')' Punctuation
'' Text.Whitespace
'>'

Operator

'' Text.Whitespace

'0' Literal.Number.Integer

;' Operator

'' Text.Whitespace

'piecewise' Name.Builtin

'(' Punctuation

'op' Name.Builtin

'(' Punctuation

'1' Literal.Number.Integer

;' Operator

'p' Name

')' Punctuation

```

';      Operator
''      Text.Whitespace
'^*`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
's'     Name
'))'    Punctuation
';      Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
')'     Punctuation
';      Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
')'     Punctuation
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
'\n    ' Text.Whitespace
'else'  Keyword
'\n    ' Text.Whitespace
'p'     Name
'\n
      ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
');'    Punctuation
'\n    ' Text.Whitespace
'w0'    Name
';      Operator
''      Text.Whitespace
'pp'    Name
'\n    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
'\n\n  ' Text.Whitespace
'# Find [w1,pp] so that\n' Comment.Single

''      Text.Whitespace

```

```

'# wrap(heap,w,mode,kl,kb0)\n' Comment.Single

' ' Text.Whitespace
'# = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)\n' Comment.Single

' ' Text.Whitespace
'# making w1 depend on var as little as possible.\n' Comment.Single

' ' Text.Whitespace
'# The flag "mode" should be `+` if "heap" contains an entry of the form\n' Comment.Single

' ' Text.Whitespace
'# t_exp,
or `*` otherwise.\n' Comment.Single

' ' Text.Whitespace
'unproduct' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'w' Name
';' Operator
' ' Text.Whitespace
'var' Name
'::' Operator
'name' Name
';' Operator
' ' Text.Whitespace
'loop' Name
'::' Operator
'(' Punctuation
'name' Name
'=' Operator
'range' Name
')' Punctuation
';' Operator
'\n' Text.Whitespace
'heap' Name
'::' Operator
'list' Name
';' Operator
' ' Text.Whitespace
'mode' Name
'::' Operator
'identical' Name
'(' Punctuation

```

```

'^*'    Name
','     Operator
'^+'    Name
')'     Punctuation
','     Operator
'\n     ' Text.Whitespace
'kb1'   Name
'::'    Operator
Operator
't_kb'  Name
','     Operator
''      Text.Whitespace
'kb0'   Name
'::'    Operator
't_kb'  Name
','     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n     ' Text.Whitespace
'local' Keyword
''      Text.Whitespace
'ind'   Name
','     Operator
''      Text.Whitespace
'res'   Name
','     Operator
''      Text.Whitespace
'dummy' Name
','     Operator
''      Text.Whitespace
'kb'    Name
','     Operator
''      Text.Whitespace
'kbThen' Name
','     Operator
''      Text.Whitespace
'i'     Name
','     Operator
''      Text.Whitespace
'w1'   Name
','     Operator
''      Text.Whitespace
'pp'   Name
','     Operator
''      Text.Whitespace
's'    Name
','     Operator

```

```

''      Text.Whitespace
'r'     Name
';'
Operator
''      Text.Whitespace
'x'     Name
';'     Punctuation
'\n '   Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'depends' Name
'('     Punctuation
'w'     Name
';'     Operator
''      Text.Whitespace
'var'   Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'return' Keyword
''      Text.Whitespace
'['     Punctuation
'wrap'  Name
'('     Punctuation
'heap'  Name
';'     Operator
''      Text.Whitespace
'w'     Name
';'     Operator
''      Text.Whitespace
'mode'  Name
';'     Operator
''      Text.Whitespace
'kb1'   Name
';'     Operator
''      Text.Whitespace
'kb0'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
']'
Punctuation
'\n '   Text.Whitespace
'end'   Keyword

```

```

''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n '   Text.Whitespace
"# The `.` (indices) of all occurrences of `idx(var,..)`\n" Comment.Single

' '     Text.Whitespace
'ind'   Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'map2'  Name
'('     Punctuation
'op'    Name.Builtin
';'     Operator
''      Text.Whitespace
'2'     Literal.Number.Integer
';'     Operator
''      Text.Whitespace
'indets' Name.Builtin
'('     Punctuation
'w'     Name
';'     Operator
''      Text.Whitespace
''''    Punctuation
'idx'   Name
'('     Punctuation
'identical' Name
'('     Punctuation
'var'   Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'anything' Name
')'
    Punctuation
''''    Punctuation
')):'   Punctuation
'\n '   Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'nops'  Name.Builtin
'('     Punctuation
'ind'   Name
')'     Punctuation
''      Text.Whitespace
':='    Operator
''      Text.Whitespace

```

```

'1'      Literal.Number.Integer
''       Text.Whitespace
'then'   Keyword
'\n'    ' Text.Whitespace
'ind'    Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'ind'    Name
');'     Punctuation
'\n'    ' Text.Whitespace
'# Make sure ind contains no bound variables before lifting it!\n' Comment.Single

' '      Text.Whitespace
'# So, check that "extract using indets" and "rename using eval" commute.\n' Comment.Single

' '      Text.Whitespace
's'      Name
''       Text.Whitespace
':='     Operator
''

Text.Whitespace
'indets' Name.Builtin
'('      Punctuation
'ind'    Name
';'      Operator
''       Text.Whitespace
""""     Punctuation
'name'   Name
""""     Punctuation
');'     Punctuation
'\n'    ' Text.Whitespace
's'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'map'    Name.Builtin
'('      Punctuation
'proc'   Keyword
'('      Punctuation
'x'      Name
';'      Operator
'$'      Operator
')'      Punctuation
''       Text.Whitespace
'local'  Keyword

```

'' Text.Whitespace
 'y' Name
 ';' Punctuation
 '' Text.Whitespace
 '^if' Name
 '(' Punctuation
 'depends' Name
 '(' Punctuation
 'ind' Name
 ';' Operator
 'x' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '=' Operator
 'y'
 Name
 ';' Operator
 '' Text.Whitespace
 'NULL' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Operator
 '' Text.Whitespace
 's' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'indets' Name.Builtin
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'w' Name
 ';' Operator
 '' Text.Whitespace
 's' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 'idx' Name
 '(' Punctuation
 'identical' Name

```

 '('      Punctuation
 'var'   Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'anything' Name
 ')'     Punctuation
 ""     Punctuation
 ')'     Punctuation
 '\n    '
 Text.Whitespace
 '='     Operator
 ''      Text.Whitespace
 '{'     Punctuation
 'idx'   Name
 '('     Punctuation
 'var'   Name
 ';'     Operator
 ''      Text.Whitespace
 'eval'  Name.Builtin
 '('     Punctuation
 'ind'   Name
 ';'     Operator
 ''      Text.Whitespace
 's'     Name
 '))}'   Punctuation
 ''      Text.Whitespace
 'then'  Keyword
 '\n    ' Text.Whitespace
 "# use kb as a local context, and 'solve' for the innermost bound var\n" Comment.Single

 '      ' Text.Whitespace
 '# used in ind.\n' Comment.Single

 '      ' Text.Whitespace
 'kb'   Name
 ''     Text.Whitespace
 ':='   Operator
 ''     Text.Whitespace
 'assert' Name
 '('    Punctuation
 'lhs'  Name.Builtin
 '('    Punctuation
 'loop' Name
 ')'    Punctuation
 '='    Operator
 'ind'  Name
 ';'    Operator

```

```

''      Text.Whitespace
'kb1'
  Name
');'    Punctuation
''      Text.Whitespace
'# BUG! bijectivity assumed!\n' Comment.Single

'      ' Text.Whitespace
"# if the assertion makes the KB false, it isn't needed(?)\n" Comment.Single

'      ' Text.Whitespace
'ASSERT' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
'('     Punctuation
'kb'    Name
';'     Operator
''      Text.Whitespace
't_kb'  Name
')'     Punctuation
';'     Operator
'\n     ' Text.Whitespace
'sprintf' Name
'('     Punctuation
"assert(%a,%a) produced a false KB!\n" Literal.String
';'     Operator
''      Text.Whitespace
'lhs'   Name.Builtin
'('     Punctuation
'loop'  Name
')'     Punctuation
'≡'     Operator
'ind'   Name
';'     Operator
'kb1'   Name
'))'    Punctuation
';'     Operator
'\n     ' Text.Whitespace
'res'   Name
''      Text.Whitespace
':='
  Operator
''      Text.Whitespace
'subs'  Name.Builtin
'('     Punctuation
'idx'   Name
'('     Punctuation
'var'   Name

```

';' Operator
 'ind' Name
 ')' Punctuation
 '' Text.Whitespace
 '==' Operator
 '' Text.Whitespace
 'idx' Name
 '(' Punctuation
 'var' Name
 ';' Operator
 'lhs' Name.Builtin
 '(' Punctuation
 'loop' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'w' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'wrap' Name
 '(' Punctuation
 'heap' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb'
 Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subs' Name.Builtin
 '(' Punctuation
 'idx' Name

'(' Punctuation
 'var' Name
 ';' Operator
 'lhs' Name.Builtin
 '(' Punctuation
 'loop' Name
 '))' Punctuation
 '≡' Operator
 'dummy' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'res' Name
 ';' Operator
 '' Text.Whitespace
 'var' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'return'
 Keyword
 '' Text.Whitespace
 '[' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'subs' Name.Builtin
 '(' Punctuation
 'dummy' Name
 '≡' Operator
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'res' Name
 ')]' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword

```

\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
\n ' Text.Whitespace
# distribute the unproduct over each part\n' Comment.Single

```

```

' ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'w' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'mode'
  Name
'' Text.Whitespace
'then' Keyword
\n ' Text.Whitespace
'res' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'map' Name.Builtin
'(' Punctuation
'unproduct' Name
';' Operator
'' Text.Whitespace
'^if' Name
'(' Punctuation
'mode' Name
'=' Operator
'^*' Name
';' Operator
'' Text.Whitespace
'list_of_mul' Name
'(' Punctuation
'w' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'[' Punctuation
'op' Name.Builtin

```

```

 '('      Punctuation
 'w'     Name
 '))'    Punctuation
 ';'    Operator
 '\n'    ' Text.Whitespace
 'var'   Name
 ';'    Operator
 ''     Text.Whitespace
 'loop'  Name
 ';'    Operator
 ''     Text.Whitespace
 'heap'  Name
 ';'    Operator
 ''

      Text.Whitespace
 'mode'  Name
 ';'    Operator
 ''     Text.Whitespace
 'kb1'   Name
 ';'    Operator
 ''     Text.Whitespace
 'kb0'   Name
 ');'    Punctuation
 '\n'    ' Text.Whitespace
 'return' Keyword
 ''     Text.Whitespace
 '['     Punctuation
 '^*`'   Name
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 'map2'  Name
 '('     Punctuation
 'op'    Name.Builtin
 ';'    Operator
 '1'     Literal.Number.Integer
 ';'    Operator
 'res'   Name
 ')))'   Punctuation
 ';'    Operator
 ''     Text.Whitespace
 '^*`'   Name
 '('     Punctuation
 'op'    Name.Builtin
 '('     Punctuation
 'map2'  Name
 '('     Punctuation
 'op'    Name.Builtin

```

```

';'      Operator
'2'      Literal.Number.Integer
';'      Operator
'res'    Name
')))]'   Punctuation
'\n '    Text.Whitespace
'end'

      Keyword
''      Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'# for piecewise, just map right in (using KB for context tracking)\n' Comment.Single

' '      Text.Whitespace
'if'     Keyword
''      Text.Whitespace
'w'      Name
''      Text.Whitespace
'::'     Operator
''      Text.Whitespace
''''     Punctuation
'specfunc' Name
'('      Punctuation
'piecewise' Name.Builtin
')'      Punctuation
''''     Punctuation
''      Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'kb'     Name
''      Text.Whitespace
':='     Operator
''      Text.Whitespace
'kb1'    Name
';'      Punctuation
'\n '    Text.Whitespace
'for'    Keyword
''      Text.Whitespace
'i'      Name
''      Text.Whitespace
'from'   Keyword
''      Text.Whitespace
'1'      Literal.Number.Integer
'
'      Text.Whitespace
'to'     Keyword
''      Text.Whitespace

```

```

'nops'    Name.Builtin
'('       Punctuation
'w'       Name
')'       Punctuation
''        Text.Whitespace
'do'      Keyword
'\n      ' Text.Whitespace
'if'      Keyword
''        Text.Whitespace
'i'       Name
''        Text.Whitespace
'::'      Operator
''        Text.Whitespace
'even'    Name
''        Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'kbThen'  Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'assert'  Name
'('       Punctuation
' '       Text.Whitespace
'op'      Name.Builtin
'('       Punctuation
'i'       Name
'-'       Operator
'1'       Literal.Number.Integer
';'       Operator
'w'       Name
')'       Punctuation
''        Text.Whitespace
';'       Operator
''        Text.Whitespace
'kb'      Name
');'      Punctuation
'\n      ' Text.Whitespace
'# accumulate the rest, regardless\n' Comment.Single

' '       Text.Whitespace
'kb'      Name
' '       Text.Whitespace
':='      Operator
''        Text.Whitespace
'assert'  Name
'('       Punctuation

```

```

'Not'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'i'      Name
'-'      Operator
'1'      Literal.Number.Integer
';'      Operator
'w'      Name
'))'     Punctuation
';'      Operator
''       Text.Whitespace
'kb'     Name
');'     Punctuation
'\n\n'   ' Text.Whitespace
'# if kbThen is invalid, deal appropriately\n' Comment.Single

```

```

'      ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'type'  Name.Builtin
'('     Punctuation
'kbThen' Name
';'     Operator
't_kb'  Name
')'     Punctuation
''
      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'next'  Keyword
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n\n'  ' Text.Whitespace
'w1'    Name
'['     Punctuation
'i'     Name
']'     Punctuation
';'     Operator
''      Text.Whitespace
'pp'    Name
'['     Punctuation
'i'     Name

```

```

']'      Punctuation
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'unproduct' Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'i'      Name
';'      Operator
'w'      Name
')'      Punctuation
';'      Operator
'var'    Name
';'      Operator
'loop'   Name
';'      Operator
'heap'   Name
';'      Operator
'mode'   Name
';'      Operator
'kbThen'
    Name
';'      Operator
'kb0'    Name
')):'    Punctuation
'\n'     ' Text.Whitespace
"# if kb is inconsistent, we're done\n" Comment.Single

```

```

'       ' Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'type'  Name.Builtin
'('     Punctuation
'kb'    Name
';'     Operator
't_kb'  Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'break' Keyword
''      Text.Whitespace
'end'   Keyword

```

'' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'elif' Keyword
 '' Text.Whitespace
 'i' Name
 '' Text.Whitespace
 '==' Operator
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'w' Name
 ')' Punctuation
 '' Text.Whitespace
 'then'
 Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'type' Name.Builtin
 '(' Punctuation
 'kb' Name
 ';' Operator
 't_kb' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'next' Keyword
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'w1' Name
 '[' Punctuation
 'i' Name
 ']' Punctuation
 ';' Operator
 '' Text.Whitespace
 'pp' Name
 '[' Punctuation
 'i' Name
 ']' Punctuation

'' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'unproduct' Name
 '(' Punctuation
 'op' Name.Builtin
 '('
 Punctuation
 'i' Name
 ';' Operator
 'w' Name
 ')' Punctuation
 ';' Operator
 'var' Name
 ';' Operator
 'loop' Name
 ';' Operator
 'heap' Name
 ';' Operator
 'mode' Name
 ';' Operator
 'kb' Name
 ' ' Text.Whitespace
 ';' Operator
 'kb0' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 '[' Punctuation
 '^*^' Name
 '(' Punctuation
 'entries' Name.Builtin
 '(' Punctuation
 'w1' Name
 ';' Operator
 "" Punctuation

'nolist' Name
'''' Punctuation
'))' Punctuation
';
Operator
'' Text.Whitespace
'^*`' Name
'(' Punctuation
'entries' Name.Builtin
'(' Punctuation
'pp' Name
';' Operator
'''' Punctuation
'nolist' Name
'''' Punctuation
'))]' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'mode' Name
'' Text.Whitespace
'=' Operator
'' Text.Whitespace
'^*`' Name
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'w' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'(' Punctuation
'anything' Name
'^' Operator
'feof' Name
'(' Punctuation
'var' Name
'))'
Punctuation
'' Text.Whitespace
'then' Keyword

```

\n      ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
'unproduct' Name
'('     Punctuation
'op'   Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'w'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'var'   Name
';'     Operator
''      Text.Whitespace
'loop'  Name
';'     Operator
\n      ' Text.Whitespace
'['     Punctuation
'op'   Name.Builtin
'('     Punctuation
'heap' Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'Stmt'  Name
'('     Punctuation
'^^'   Name
';'     Operator
''      Text.Whitespace
'[]'   Punctuation
';'     Operator
''      Text.Whitespace
'['     Punctuation
'op'   Name.Builtin
'('     Punctuation
      Punctuation
'2'     Literal.Number.Integer
';'     Operator
'w'     Name
')))]' Punctuation
';'     Operator
''      Text.Whitespace
'^*'   Name
';'     Operator
''      Text.Whitespace
'kb1'  Name

```

```

';      Operator
''      Text.Whitespace
'kb0'   Name
')'     Punctuation
'\n    ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'w'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
'exp'   Name
'('     Punctuation
'anything' Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
'unproduct' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'w'     Name
')'     Punctuation
';'     Operator
'
'      Text.Whitespace
'var'   Name
';'     Operator
''      Text.Whitespace
'loop'  Name
';'     Operator
'\n    ' Text.Whitespace
'['     Punctuation
'op'    Name.Builtin
'('     Punctuation
'heap'  Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'Stmt'  Name
'('     Punctuation
'exp'   Name
';'     Operator

```

```

''      Text.Whitespace
'[]'    Punctuation
';'     Operator
''      Text.Whitespace
'[])]'  Punctuation
';'     Operator
''      Text.Whitespace
'^+'    Name
';'     Operator
''      Text.Whitespace
'kb1'   Name
';'     Operator
''      Text.Whitespace
'kb0'   Name
')'     Punctuation
'\n '   Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'w'     Name
''      Text.Whitespace
'::'    Operator
''
    Text.Whitespace
'('     Punctuation
'feof'  Name
'('     Punctuation
'var'   Name
')^'    Punctuation
'anything' Name
')'     Punctuation
''      Text.Whitespace
'then'  Keyword
'\n '   Text.Whitespace
'return' Keyword
''      Text.Whitespace
'unproduct' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'w'     Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'var'   Name
';'     Operator
''      Text.Whitespace

```

```

'loop'   Name
';'      Operator
'\n      ' Text.Whitespace
'['      Punctuation
'op'     Name.Builtin
'('      Punctuation
'heap'   Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'Stmt'   Name
'('      Punctuation
'^^'     Name
';'      Operator
''
Text.Whitespace
'['      Punctuation
'op'     Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
';'      Operator
'w'      Name
')]'     Punctuation
';'      Operator
''       Text.Whitespace
'[]]'    Punctuation
';'      Operator
''       Text.Whitespace
'^+'     Name
';'      Operator
''       Text.Whitespace
'kb1'    Name
';'      Operator
''       Text.Whitespace
'kb0'    Name
')'      Punctuation
'\n      ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
'\n      ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n      ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace

```

```

'mode'   Name
''       Text.Whitespace
'='      Operator
''       Text.Whitespace
'^+'     Name
''       Text.Whitespace
'and'
        Keyword
''       Text.Whitespace
'w'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
'^*^'    Name
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
's'      Name
','      Operator
''       Text.Whitespace
'r'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'selectremove' Name.Builtin
'('      Punctuation
'depends' Name
','      Operator
''       Text.Whitespace
'w'      Name
','      Operator
''       Text.Whitespace
'var'    Name
');'     Punctuation
'\n '    Text.Whitespace
'if'     Keyword
''       Text.Whitespace
's'      Name
''       Text.Whitespace
'::'     Operator
''       Text.Whitespace
'^*^'    Name
''       Text.Whitespace
'then'   Keyword
'\n '    Text.Whitespace
'# Nonlinear %1 (time to reread kiselyov-lifted?)\n'
Comment.Single

```

```

' ' Text.Whitespace
'else' Keyword
'\n ' Text.Whitespace
'return' Keyword
'' Text.Whitespace
'unproduct' Name
 '(' Punctuation
 's' Name
 ';' Operator
 '' Text.Whitespace
 'var' Name
 ';' Operator
 '' Text.Whitespace
 'loop' Name
 ';' Operator
 '\n ' Text.Whitespace
 '[' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'heap' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'Stmt' Name
 '(' Punctuation
 '^*^' Name
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 ';' Operator
 '' Text.Whitespace
 '[' Punctuation
 'r' Name
 ')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 '^+^' Name
 ';' Operator
 '' Text.Whitespace
 'kb1'
 Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace

```

'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'And' Name
 '(' Punctuation
 'specfunc' Name
 '(' Punctuation
 '~if' Name
 '(' Punctuation
 'mode' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '~*' Name
 ';' Operator
 '' Text.Whitespace
 '{' Punctuation
 'product' Name
 ';' Operator
 '' Text.Whitespace
 'Product' Name
 '}' Punctuation
 ','
 Operator
 '' Text.Whitespace
 '{' Punctuation
 'sum' Name
 ';' Operator
 '' Text.Whitespace
 'Sum' Name
 ')))' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '' Text.Whitespace

'name' Name
 '=' Operator
 'range' Name
 '(' Punctuation
 'feof' Name
 '(' Punctuation
 'var' Name
 ')))]' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'x' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'genType' Name
 '(' Punctuation
 'op' Name.Builtin
 '([' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'w' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'HInt' Name
 '(' Punctuation
 'closed_bounds' Name
 '(' Punctuation
 'op' Name.Builtin
 '([' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'w' Name
 ')))]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name

```

'; Operator
'\n      ' Text.Whitespace
'w'     Name
'; Operator
''      Text.Whitespace
'var'   Name
'; Operator
''      Text.Whitespace
'loop'  Name
'; Operator
''      Text.Whitespace
'heap'  Name
');'    Punctuation
'\n    ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
'unproduct' Name
'('     Punctuation
'eval'
      Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
'; Operator
'w'     Name
')'     Punctuation
'; Operator
''      Text.Whitespace
'op'    Name.Builtin
'(['   Punctuation
'2'     Literal.Number.Integer
'; Operator
'1'     Literal.Number.Integer
']'     Punctuation
'; Operator
'w'     Name
')'     Punctuation
'='     Operator
'x'     Name
')'     Punctuation
'; Operator
''      Text.Whitespace
'var'   Name
'; Operator
''      Text.Whitespace
'loop'  Name
'; Operator

```

\n Text.Whitespace
 ']' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'heap' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'Binder' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'w' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ')]' Punctuation
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 \n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 \n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'mode' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '^*^' Name
 '' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'w' Name

```

''      Text.Whitespace
'::'    Operator
''
      Text.Whitespace
''''    Punctuation
'{'     Punctuation
'^+'    Name
','     Operator
''      Text.Whitespace
'specfunc' Name
'({'    Punctuation
'sum'   Name
','     Operator
''      Text.Whitespace
'Sum'   Name
'}})'   Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
'\n'    Text.Whitespace
'# Maybe this w is one of those big sums involving products that are\n' Comment.Single

' '     Text.Whitespace
'# always equal to 1, left behind by the density of Categorical\n' Comment.Single

' '     Text.Whitespace
'w1'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'graft' Name
'('     Punctuation
'split' Name
'('     Punctuation
'peel'  Name
'('     Punctuation
'w'     Name
')));'  Punctuation
'\n'    Text.Whitespace
'w1'    Name
''      Text.Whitespace
':='    Operator
      Operator
''      Text.Whitespace
'combine' Name
'('     Punctuation
'rebase_upper' Name
'('     Punctuation

```

'w1' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'w1' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'combine' Name
 '(' Punctuation
 'rebase_lower' Name
 '(' Punctuation
 'w1' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 '[' Punctuation
 'wrap' Name
 '(' Punctuation
 'heap' Name
 ';' Operator
 '' Text.Whitespace
 'w1' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '1'
 Literal.Number.Integer
 ']' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 '[' Punctuation
 'wrap' Name

'(' Punctuation
 'heap' Name
 ';' Operator
 '' Text.Whitespace
 'w' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ';' Operator
 '' Text.Whitespace
 'kb1' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ']' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n\n ' Text.Whitespace
 'enter_piecewise' Name
 '' Text.Whitespace
 ':='
 Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'ee' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 '::' Operator
 't_kb' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 '::' Operator
 'identical' Name
 '(' Punctuation
 '^*^' Name
 ';' Operator
 '^+^' Name
 ')' Punctuation

';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'mo' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'e' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'ee' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'kb' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'kb0' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'mo' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'mode' Name
 '());' Punctuation
 '\n ' Text.Whitespace
 'while' Keyword
 '' Text.Whitespace
 'e' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 "" Punctuation
 'specfunc' Name
 '(' Punctuation
 'piecewise' Name.Builtin

')' Punctuation
 "" Punctuation
 '' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'e' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '3' Literal.Number.Integer
 '
 ' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '3' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'mo' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'kb' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'assert' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ');' Punctuation

```

\n      ' Text.Whitespace
'e'     Name
''      Text.Whitespace
':='    Operator
''
      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'e'     Name
');'    Punctuation
\n      ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'e'     Name
')'     Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'mo'    Name
''      Text.Whitespace
'then'  Keyword
\n      ' Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'assert' Name
'('     Punctuation
'Not'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'e'     Name
'))'    Punctuation
';'     Operator
''      Text.Whitespace
'kb'
      Name
');'    Punctuation
\n      ' Text.Whitespace

```

```

'e'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'3'      Literal.Number.Integer
';'      Operator
'e'      Name
');'     Punctuation
'\n '    Text.Whitespace
'else'   Keyword
'\n '    Text.Whitespace
'break'  Keyword
';'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'ASSERT' Name.Builtin
'('      Punctuation
'type'   Name.Builtin
'('      Punctuation
'kb'     Name
';'      Operator
't_kb'   Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
'''enter_pieewise:
KB of pieewise conditions is not valid, so the input pieewise must not be valid.''' Literal.String
');'     Punctuation
'\n '    Text.Whitespace
'e'      Name
';'      Operator
''       Text.Whitespace
'kb'     Name
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword

```

```

';'      Punctuation
'\n\n '  Text.Whitespace
'# heap is a list of t_binder and t_stmt\n' Comment.Single

' '      Text.Whitespace
'# one invariant to maintain:\n' Comment.Single

' '      Text.Whitespace
'# wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)\n' Comment.Single

'\n '    Text.Whitespace
'# Also, a t_binder is a Product/product/Sum/sum.\n' Comment.Single

' '      Text.Whitespace
'# And, a t_stmt is a 1-hole context of a (multiplicative) AST,\n' Comment.Single

' '      Text.Whitespace
'# used for [a ^ hole, hole ^ b, exp(hole), c * hole].\n' Comment.Single

'\n
'      Text.Whitespace
'wrap'  Name
' '      Text.Whitespace
':='    Operator
' '      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'heap'  Name
'::'    Operator
'list'  Name
';'     Operator
' '      Text.Whitespace
'e1'    Name
';'     Operator
' '      Text.Whitespace
'mode1' Name
'::'    Operator
'identical' Name
'('     Punctuation
'^*^'   Name
';'     Operator
'^+^'   Name
')'     Punctuation
';'     Operator
'\n     ' Text.Whitespace
'kb1'   Name
'::'    Operator
't_kb'  Name

```

```

';      Operator
''      Text.Whitespace
'kb0'   Name
'::'    Operator
't_kb'  Name
';      Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'local' Keyword
''      Text.Whitespace
'e'     Name
';      Operator
'
'      Text.Whitespace
'kb'    Name
';      Operator
''      Text.Whitespace
'mode'  Name
';      Operator
''      Text.Whitespace
'i'     Name
';      Operator
''      Text.Whitespace
'entry' Name
';      Operator
''      Text.Whitespace
'rest'  Name
';      Operator
''      Text.Whitespace
'var'   Name
';      Operator
''      Text.Whitespace
'new_rng' Name
';      Operator
''      Text.Whitespace
'make'  Name
';      Operator
''      Text.Whitespace
'logmake' Name
';      Operator
'\n '   Text.Whitespace
'dom_spec' Name
';      Operator
''      Text.Whitespace
'w'     Name
';      Operator

```

```

''      Text.Whitespace
'wPow'  Name
';'     Operator
''      Text.Whitespace
'wExp'  Name
';'     Operator
''      Text.Whitespace
'arrgs' Name
';'     Punctuation
'\n'
' '     Text.Whitespace
'e'     Name
' '     Text.Whitespace
':='   Operator
''      Text.Whitespace
'e1'    Name
';'     Punctuation
'\n '   Text.Whitespace
'kb'    Name
' '     Text.Whitespace
':='   Operator
''      Text.Whitespace
'kb1'   Name
';'     Punctuation
'\n '   Text.Whitespace
'mode'  Name
''      Text.Whitespace
':='   Operator
''      Text.Whitespace
'mode1' Name
';'     Punctuation
'\n '   Text.Whitespace
'for'   Keyword
''      Text.Whitespace
'i'     Name
''      Text.Whitespace
'from'  Keyword
''      Text.Whitespace
'nops'  Name.Builtin
'('     Punctuation
'heap'  Name
')'     Punctuation
''      Text.Whitespace
'to'    Keyword
''      Text.Whitespace
'1'     Literal.Number.Integer
''      Text.Whitespace
'by'    Keyword

```

```

''
    Text.Whitespace
'-'    Operator
'1'    Literal.Number.Integer
''     Text.Whitespace
'do'   Keyword
'\n '  Text.Whitespace
'entry' Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'op'   Name.Builtin
'('    Punctuation
'i'    Name
';'    Operator
'heap' Name
');'   Punctuation
'\n '  Text.Whitespace
'if'   Keyword
''     Text.Whitespace
'entry' Name
''     Text.Whitespace
'::'   Operator
''     Text.Whitespace
't_binder' Name
''     Text.Whitespace
'then' Keyword
'\n '  Text.Whitespace
'if'   Keyword
''     Text.Whitespace
'not'  Keyword
''     Text.Whitespace
'('    Punctuation
'op'   Name.Builtin
'('    Punctuation
'1'    Literal.Number.Integer
';'    Operator
'entry' Name
')'    Punctuation
''     Text.Whitespace
'in'   Keyword
''     Text.Whitespace
'^if'  Name
'('    Punctuation
'mode' Name
'='    Operator
'^+'   Name

```

```

';      Operator
''      Text.Whitespace
'{'     Punctuation
'sum'   Name
';      Operator
'Sum'   Name
'}'     Punctuation
';      Operator
'\n'    ' Text.Whitespace
'{'     Punctuation
'product' Name
';      Operator
'Product' Name
'}})'   Punctuation
''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'print' Name.Builtin
'('     Punctuation
"Warning: heap mode inconsistency" Literal.String
';      Operator
''      Text.Whitespace
'heap'  Name
';      Operator
''      Text.Whitespace
'mode1' Name
')'     Punctuation
'\n'    ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';
      Punctuation
'\n'    ' Text.Whitespace
'e'     Name
';      Operator
''      Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'enter_pieewise' Name
'('     Punctuation
'e'     Name
';      Operator
''      Text.Whitespace
'kb'    Name
';      Operator

```

```

''      Text.Whitespace
'mode'  Name
');'    Punctuation
'\n    ' Text.Whitespace
'rest'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'kb_subtract' Name
'('     Punctuation
'kb'    Name
';'     Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'2'     Literal.Number.Integer
';'     Operator
'entry' Name
'))';'  Punctuation
'\n    ' Text.Whitespace
'new_rng' Name
';'     Operator
''      Text.Whitespace
'rest'  Name
''
      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'type'  Name.Builtin
';'     Operator
''      Text.Whitespace
'rest'  Name
';'     Operator
'\n    ' Text.Whitespace
'{'     Punctuation
'identical' Name
'('     Punctuation
'genType' Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'name'  Name
';'     Operator
''      Text.Whitespace
'specfunc' Name
'('     Punctuation

```

```

'Hint'    Name
')]'      Punctuation
';'       Operator
'\n      ' Text.Whitespace
'['       Punctuation
'identical' Name
'('       Punctuation
'genLet'  Name
')'       Punctuation
';'       Operator
''        Text.Whitespace
'name'    Name
';'       Operator
''        Text.Whitespace
'anything' Name
']]);'    Punctuation
'\n      ' Text.Whitespace
'if'
  Keyword
''        Text.Whitespace
'not'     Keyword
''        Text.Whitespace
'('       Punctuation
'new_rng' Name
''        Text.Whitespace
'::'      Operator
''        Text.Whitespace
'['       Punctuation
'list'    Name
')]'      Punctuation
''        Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'error'   Keyword
''        Text.Whitespace
"kb_subtract should return exactly one gen*" Literal.String
'\n      ' Text.Whitespace
'end'     Keyword
''        Text.Whitespace
'if'      Keyword
';'       Punctuation
'\n      ' Text.Whitespace
'new_rng' Name
''        Text.Whitespace
':='      Operator
''        Text.Whitespace
'op'      Name.Builtin
'('       Punctuation

```

```

'new_rng' Name
');' Punctuation
\n ' Text.Whitespace
'var' Name
' ' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'('
    Punctuation
'2' Literal.Number.Integer
';' Operator
'new_rng' Name
');' Punctuation
\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
';' Operator
'new_rng' Name
')' Punctuation
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'genType' Name
'' Text.Whitespace
'then' Keyword
\n ' Text.Whitespace
'make' Name
' ' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
';' Operator
'entry' Name
');' Punctuation
\n ' Text.Whitespace
'new_rng' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'range_of_HInt' Name
'(' Punctuation
'op'

```

```

    Name.Builtin
'('      Punctuation
'3'      Literal.Number.Integer
','      Operator
'new_rng' Name
');'     Punctuation
'\n     ' Text.Whitespace
'else'   Keyword
''       Text.Whitespace
'# op(1,new_rng) = genLet\n' Comment.Single

'      ' Text.Whitespace
'make'   Name
' '      Text.Whitespace
':='     Operator
''       Text.Whitespace
'eval'   Name.Builtin
';'      Punctuation
'\n     ' Text.Whitespace
'new_rng' Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'3'      Literal.Number.Integer
','      Operator
'new_rng' Name
');'     Punctuation
'\n     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n     ' Text.Whitespace
'dom_spec' Name
';'      Operator
''       Text.Whitespace
'rest'

    Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'selectremove' Name.Builtin
'('      Punctuation
'depends' Name
';'      Operator
'\n     ' Text.Whitespace

```

```

'map'    Name.Builtin
'('      Punctuation
'proc'   Keyword
'('      Punctuation
'a'      Name
'::'     Operator
'['      Punctuation
'identical' Name
'('      Punctuation
'assert' Name
')'      Punctuation
';'      Operator
'anything' Name
']'      Punctuation
';'      Operator
'$'      Operator
')'      Punctuation
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'2'      Literal.Number.Integer
';'      Operator
'a'      Name
')'      Punctuation
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Operator
''       Text.Whitespace
'rest'   Name
')'
  Punctuation
';'      Operator
'\n'     ' Text.Whitespace
'var'    Name
');'     Punctuation
'\n\n'   ' Text.Whitespace
'# Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);\n' Comment.Single

'      ' Text.Whitespace
'# but try to simplify by pushing the make and the piecewise into e\n' Comment.Single

'      ' Text.Whitespace
'('      Punctuation
'e'      Name
';'      Operator
''       Text.Whitespace

```

'w' Name
 ')' Punctuation
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'selectremove' Name.Builtin
 '(' Punctuation
 'depends' Name
 ';' Operator
 '' Text.Whitespace
 'convert' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'list' Name
 "" Punctuation
 ';' Operator
 '' Text.Whitespace
 '^*`' Name
 ')' Punctuation
 Punctuation
 ';' Operator
 '' Text.Whitespace
 'var' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^*`' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'w' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'mode' Name
 '' Text.Whitespace
 '≡' Operator
 '' Text.Whitespace
 '^*`' Name
 '' Text.Whitespace
 'then' Keyword

```

\n      ' Text.Whitespace
 '('    Punctuation
 'wPow' Name
 ';'    Operator
 ''     Text.Whitespace
 'e'    Name
 ')'    Punctuation
 ''     Text.Whitespace
 ':='   Operator
 ''     Text.Whitespace
 'selectremove' Name.Builtin
 '('    Punctuation
 'type' Name.Builtin
 ';'
      Operator
 ''     Text.Whitespace
 'e'    Name
 ';'    Operator
 ''     Text.Whitespace
 """"   Punctuation
 '^'    Name
 """"   Punctuation
 '('    Punctuation
 """"   Punctuation
 'freeof' Name
 """"   Punctuation
 '('    Punctuation
 'var'  Name
 ')'    Punctuation
 ';'    Operator
 ''     Text.Whitespace
 """"   Punctuation
 'anything' Name
 """"   Punctuation
 ');'   Punctuation
\n      ' Text.Whitespace
 '('    Punctuation
 'wExp' Name
 ';'    Operator
 ''     Text.Whitespace
 'e'    Name
 ')'    Punctuation
 ''     Text.Whitespace
 ':='   Operator
 ''     Text.Whitespace
 'selectremove' Name.Builtin
 '('    Punctuation
 'type' Name.Builtin

```

```

';'      Operator
''       Text.Whitespace
'e'      Name
';'      Operator
''       Text.Whitespace
''''     Punctuation
'exp'
    Name
'('      Punctuation
'anything' Name
')'      Punctuation
''''     Punctuation
');'     Punctuation
'\n'    ' Text.Whitespace
'wExp'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'^+'     Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'map2'   Name
'('      Punctuation
'op'     Name.Builtin
';'      Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'wExp'   Name
')));'   Punctuation
'\n'    ' Text.Whitespace
'wExp'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'expand' Name.Builtin
'('      Punctuation
'wExp'   Name
';'      Operator
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'indets' Name.Builtin
'('      Punctuation
'wExp'

```

```

    Name
';      Operator
''      Text.Whitespace
'function' Name
')));'  Punctuation
'\n    ' Text.Whitespace
'logmake' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
't'     Name
')'     Punctuation
'\n    ' Text.Whitespace
'local' Keyword
''      Text.Whitespace
's'     Name
';      Operator
''      Text.Whitespace
'r'     Name
';      Punctuation
'\n    ' Text.Whitespace
's'     Name
';      Operator
''      Text.Whitespace
'r'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'selectremove' Name.Builtin
'('     Punctuation
'depends' Name
';      Operator
''      Text.Whitespace
'convert' Name.Builtin
'('     Punctuation
't'     Name
';      Operator
''      Text.Whitespace
""
Punctuation
'list'  Name
""      Punctuation
';      Operator
''      Text.Whitespace
'^*^'   Name
')'     Punctuation

```

```

';'      Operator
''       Text.Whitespace
'var'    Name
');'     Punctuation
'\n     ' Text.Whitespace
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
';'      Operator
'\n     ' Text.Whitespace
`if'     Name
'('      Punctuation
'make'   Name
'='      Operator
'eval'   Name.Builtin
';'      Operator
'eval'   Name.Builtin
';'      Operator
'Sum'    Name
')'      Punctuation
'\n     ' Text.Whitespace
'('      Punctuation
'piecewise_And' Name
'('      Punctuation
'dom_spec' Name
';'      Operator
''       Text.Whitespace
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('
    Punctuation
's'      Name
'))'     Punctuation
';'      Operator
''       Text.Whitespace
'0'      Literal.Number.Integer
')'      Punctuation
';'      Operator
''       Text.Whitespace
'var'    Name
'='      Operator
'new_rng' Name
'))';'   Punctuation
'\n     ' Text.Whitespace

```

'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n' Text.Whitespace
 'w' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^*`' Name
 '(' Punctuation
 '' Text.Whitespace
 `if` Name
 '(' Punctuation
 'w' Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'w' Name
 ' Text.Whitespace
 '^' Operator
 '' Text.Whitespace
 'logmake' Name
 '(' Punctuation
 '1' Literal.Number.Integer
 '))' Punctuation
 '\n' Text.Whitespace
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'map' Name.Builtin
 '((Punctuation
 'f' Name
 '' Text.Whitespace
 '->' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator

```

'f'      Name
')'      Punctuation
''       Text.Whitespace
'^'      Operator
''       Text.Whitespace
'logmake' Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'2'      Literal.Number.Integer
';'      Operator
'f'      Name
')))'    Punctuation
';'      Operator
''       Text.Whitespace
'wPow'
  Name
')))'    Punctuation
'\n'     ' Text.Whitespace
';'      Operator
''       Text.Whitespace
'^if'    Name
'('      Punctuation
'wExp'   Name
''       Text.Whitespace
'='      Operator
''       Text.Whitespace
'0'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'exp'    Name
'('      Punctuation
'maptype' Name
'('      Punctuation
'^+'     Name
';'      Operator
'logmake' Name
';'      Operator
'wExp'   Name
')))'    Punctuation
''       Text.Whitespace
');'     Punctuation
'\n'     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace

```

```

'if'      Keyword
';'      Punctuation
'\n'     ' Text.Whitespace
'e'      Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'w'
    Name
''       Text.Whitespace
'*'      Operator
''       Text.Whitespace
'make'   Name
'('      Punctuation
'piecewise_And' Name
'('      Punctuation
'dom_spec' Name
';'      Operator
''       Text.Whitespace
'^*`'    Name
'('      Punctuation
'op'     Name.Builtin
'('      Punctuation
'e'      Name
'))'     Punctuation
';'      Operator
''       Text.Whitespace
'mode'   Name
'()'     Punctuation
';'      Operator
''       Text.Whitespace
'var'    Name
'='      Operator
'new_rng' Name
');'     Punctuation
'\n\n'   ' Text.Whitespace
"# `rest' originally comes from `entry', and this reinserts it after some\n" Comment.Single

'      ' Text.Whitespace
'# processing. The original KB was valid, so this one should also be valid.\n' Comment.Single

'      ' Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''
    Text.Whitespace
'foldr' Name

```

```

 '('      Punctuation
 'assert' Name
 ';'     Operator
 ''      Text.Whitespace
 'op'    Name.Builtin
 '('     Punctuation
 '2'     Literal.Number.Integer
 ';'     Operator
 'entry' Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'op'    Name.Builtin
 '('     Punctuation
 'rest'  Name
 ');'    Punctuation
 '\n    ' Text.Whitespace
 'ASSERT' Name.Builtin
 '('     Punctuation
 'type'  Name.Builtin
 '('     Punctuation
 'kb'    Name
 ';'     Operator
 't_kb'  Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 '"Loop/wrap{t_binder}: rebuilding kb produced contradiction"' Literal.String
 ');'    Punctuation
 '\n\n  ' Text.Whitespace
 'elif'  Keyword
 ''      Text.Whitespace
 'entry' Name
 ''      Text.Whitespace
 '::'    Operator
 ''      Text.Whitespace
 't_stmt'
     Name
 ''      Text.Whitespace
 'then'  Keyword
 '\n    ' Text.Whitespace
 '# We evaluate arrrgs first, in case op(1,stmt) is an operation (such as\n' Comment.Single
 '      ' Text.Whitespace
 '# piecewise) that looks ahead at how many arguments it is passed before\n' Comment.Single
 '      ' Text.Whitespace
 '# they are evaluated.\n' Comment.Single

```

```

' ' Text.Whitespace
'arrrgs' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'2' Literal.Number.Integer
';' Operator
'entry' Name
'))' Punctuation
';' Operator
'' Text.Whitespace
'e' Name
';' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'3' Literal.Number.Integer
';'
Operator
'entry' Name
')):' Punctuation
\n ' Text.Whitespace
'e' Name
' ' Text.Whitespace
':=' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
';' Operator
'entry' Name
')(' Punctuation
'arrrgs' Name
');' Punctuation
\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'entry' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace

```

```

't_exp'   Name
''       Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'if'     Keyword
''       Text.Whitespace
'mode'    Name
''       Text.Whitespace
'<>'     Operator
''       Text.Whitespace
'^+'     Name
''       Text.Whitespace
'then'    Keyword
'\n      ' Text.Whitespace
'print'   Name.Builtin
'('      Punctuation
'''Warning:
heap mode inconsistency?''' Literal.String
';'      Operator
''       Text.Whitespace
'heap'    Name
';'      Operator
''       Text.Whitespace
'mode1'   Name
')'      Punctuation
'\n      ' Text.Whitespace
'end'     Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n      ' Text.Whitespace
'mode'    Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'^*`'    Name
';'      Punctuation
'\n      ' Text.Whitespace
'end'     Keyword
''       Text.Whitespace
'if'     Keyword
'\n      ' Text.Whitespace
'else'    Keyword
''       Text.Whitespace
'error'   Keyword
''       Text.Whitespace
'''Malformed heap entry %1''' Literal.String
';'      Operator

```

```

''      Text.Whitespace
'entry' Name
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
\n
'      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'do'    Keyword
';'     Punctuation
\n '    Text.Whitespace
'if'    Keyword
''      Text.Whitespace
'mode'  Name
''      Text.Whitespace
'<>'   Operator
''      Text.Whitespace
'^*^'   Name
''      Text.Whitespace
'then'  Keyword
\n '    Text.Whitespace
'print' Name.Builtin
'('     Punctuation
"Warning: heap mode inconsistency??" Literal.String
';'     Operator
''      Text.Whitespace
'heap'  Name
';'     Operator
''      Text.Whitespace
'mode1' Name
')'     Punctuation
\n '    Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
\n '    Text.Whitespace
'e'     Name
';'     Operator
''      Text.Whitespace
'kb'    Name
''      Text.Whitespace
':='    Operator
''
      Text.Whitespace
'enter_piecewise' Name

```

'(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'mode' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'rest' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'kb_subtract' Name
 '(' Punctuation
 'kb' Name
 ';' Operator
 '' Text.Whitespace
 'kb0' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'rest' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'map' Name.Builtin
 '(' Punctuation
 'proc' Keyword
 '(' Punctuation
 'a' Name
 '::' Operator
 '[' Punctuation
 'identical' Name
 '(' Punctuation
 'assert' Name
 ')' Punctuation
 ';' Operator
 'anything' Name
 ']' Punctuation
 ';' Operator
 '\$' Operator
 ')' Punctuation
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '2' Literal.Number.Integer

```

';'      Operator
'a'      Name
')'      Punctuation
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Operator
''       Text.Whitespace
'rest'   Name
');'     Punctuation
'\n '    Text.Whitespace
'('      Punctuation
'wExp'   Name
';'      Operator
''       Text.Whitespace
'e'      Name
')'      Punctuation
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'selectremove' Name.Builtin
'('      Punctuation
'type'   Name.Builtin
';'      Operator
''       Text.Whitespace
'convert' Name.Builtin
'('      Punctuation
'e'      Name
';'      Operator
''       Text.Whitespace
""""
    Punctuation
'list'   Name
""""    Punctuation
';'      Operator
''       Text.Whitespace
'^*\'    Name
')'      Punctuation
';'      Operator
''       Text.Whitespace
""""    Punctuation
'exp'   Name
'('      Punctuation
'anything' Name
')'      Punctuation
""""    Punctuation
');'     Punctuation

```

\n ' Text.Whitespace
 'wExp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^+' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'map2' Name
 '(' Punctuation
 'op' Name.Builtin
 ';' Operator
 '' Text.Whitespace
 '1' Literal.Number.Integer
 ';' Operator
 '' Text.Whitespace
 'wExp' Name
 '));' Punctuation
 \n ' Text.Whitespace
 'wExp' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'expand'
 Name.Builtin
 '(' Punctuation
 'wExp' Name
 ';' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'indets' Name.Builtin
 '(' Punctuation
 'wExp' Name
 ';' Operator
 '' Text.Whitespace
 'function' Name
 '));' Punctuation
 \n ' Text.Whitespace
 'logmake' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '(' Punctuation
 't' Name
 '' Text.Whitespace
 '->' Operator

```

''      Text.Whitespace
't'     Name
''      Text.Whitespace
'*'     Operator
''      Text.Whitespace
'piecewise_And' Name
'('     Punctuation
'rest'  Name
','     Operator
'1'     Literal.Number.Integer
','     Operator
'0'     Literal.Number.Integer
')):'  Punctuation
'\n '   Text.Whitespace
'^if'   Name
'('     Punctuation
'wExp'  Name
      Name
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'0'     Literal.Number.Integer
','     Operator
''      Text.Whitespace
'1'     Literal.Number.Integer
','     Operator
''      Text.Whitespace
'exp'   Name
'('     Punctuation
'maptype' Name
'('     Punctuation
'^+'    Name
','     Operator
'logmake' Name
','     Operator
'wExp'  Name
')))'  Punctuation
'\n '   Text.Whitespace
'*'     Operator
''      Text.Whitespace
'piecewise_And' Name
'('     Punctuation
'rest'  Name
','     Operator
'^*'    Name
'('     Punctuation
'op'   Name.Builtin
'('     Punctuation

```

```

'e'      Name
'))'    Punctuation
','     Operator
'1'     Literal.Number.Integer
');'    Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
        Punctuation
'\n\n ' Text.Whitespace
'# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)\n' Comment.Single

' '     Text.Whitespace
'# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)\n' Comment.Single

' '     Text.Whitespace
't_peel' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
''''    Punctuation
'And'   Name
'('     Punctuation
'specfunc' Name
'({'    Punctuation
'sum'   Name
','     Operator
'Sum'   Name
','     Operator
'product' Name
','     Operator
'Product' Name
'})'    Punctuation
','     Operator
'\n     ' Text.Whitespace
'anyfunc' Name
'('     Punctuation
'anything' Name
','     Operator
''      Text.Whitespace
'name'  Name
'='     Operator
'range' Name
'))'    Punctuation
''''    Punctuation
';'     Punctuation

```

```

\n ' Text.Whitespace
'peel'
  Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
\n ' Text.Whitespace
'subsindets' Name.Builtin
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
't_peel' Name
';' Operator
'' Text.Whitespace
'do_peel' Name
');' Punctuation
\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
\n ' Text.Whitespace
'do_peel' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
\n '
Text.Whitespace
'local' Keyword
'' Text.Whitespace
'make' Name
';' Operator
'' Text.Whitespace

```

```

'body'    Name
','       Operator
''        Text.Whitespace
'x'       Name
','       Operator
''        Text.Whitespace
'r'       Name
','       Operator
''        Text.Whitespace
'cond'    Name
','       Operator
''        Text.Whitespace
'line'    Name
','       Operator
''        Text.Whitespace
'test'    Name
','       Operator
''        Text.Whitespace
'x0'      Name
','       Operator
''        Text.Whitespace
'r0'      Name
','       Operator
''        Text.Whitespace
'cond0'   Name
','       Operator
''        Text.Whitespace
'here'    Name
','       Operator
''        Text.Whitespace
'rest'    Name
','       Punctuation
'\n '     Text.Whitespace
'if'      Keyword
''        Text.Whitespace
'not'
  Keyword
''        Text.Whitespace
'('       Punctuation
'e'       Name
''        Text.Whitespace
'::'     Operator
''        Text.Whitespace
't_peel'  Name
')'       Punctuation
''        Text.Whitespace
'then'    Keyword
''        Text.Whitespace

```

```

'return'  Keyword
''       Text.Whitespace
'e'      Name
''       Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n '    Text.Whitespace
'if'     Keyword
' '      Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'0'      Literal.Number.Integer
';'      Operator
'e'      Name
')'      Punctuation
''       Text.Whitespace
'in'     Keyword
''       Text.Whitespace
''''     Punctuation
'{'      Punctuation
'sum'    Name
' '      Text.Whitespace
';'      Operator
'Sum'    Name
' '      Text.Whitespace
'}'
        Punctuation
''''     Punctuation
''       Text.Whitespace
'then'   Keyword
''       Text.Whitespace
'make'   Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'^+'     Name
';'      Punctuation
'\n '    Text.Whitespace
'elif'   Keyword
''       Text.Whitespace
'op'     Name.Builtin
'('      Punctuation
'0'      Literal.Number.Integer
';'      Operator
'e'      Name
')'      Punctuation

```

```

''      Text.Whitespace
'in'    Keyword
''      Text.Whitespace
''''    Punctuation
'{'     Punctuation
'product' Name
';'     Operator
'Product' Name
'}'     Punctuation
''''    Punctuation
''      Text.Whitespace
'then'  Keyword
''      Text.Whitespace
'make'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'^*^'   Name
';'     Punctuation
''

    Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'     Punctuation
'\n '   Text.Whitespace
'body'  Name
';'     Operator
''      Text.Whitespace
'r'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'e'     Name
');'    Punctuation
'\n '   Text.Whitespace
'x'     Name
';'     Operator
''      Text.Whitespace
'r'     Name
' '     Text.Whitespace
':='    Operator
''      Text.Whitespace
'op'    Name.Builtin
'('     Punctuation
'r'     Name

```

');' Punctuation
 '\n ' Text.Whitespace
 'for' Keyword
 '' Text.Whitespace
 'cond' Name
 '' Text.Whitespace
 'in' Keyword
 '' Text.Whitespace
 'indets' Name.Builtin
 '(' Punctuation
 'body' Name
 ';' Operator
 '
 ' Text.Whitespace
 '''' Punctuation
 '{' Punctuation
 '^=' Name
 '(' Punctuation
 'algebraic' Name
 ')' Punctuation
 ';' Operator
 '^<' Name
 ';' Operator
 '^<=' Name
 '}' Punctuation
 '''' Punctuation
 ')' Punctuation
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'line' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^-' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'cond' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 '1' Literal.Number.Integer
 '' Text.Whitespace
 '<>' Operator
 '' Text.Whitespace
 'degree' Name.Builtin

'(' Punctuation
 'line' Name
 ';' Operator
 '' Text.Whitespace
 'x'
 Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'next' Keyword
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'cond' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '^=' Name
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'cond0' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'true' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'Testzero' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'line' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '=' Operator
 'lhs'
 Name.Builtin
 '(' Punctuation

'r' Name
'))' Punctuation
'' Text.Whitespace
'then' Keyword
'\n' Text.Whitespace
'x0' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'lhs' Name.Builtin
'(' Punctuation
'r' Name
');' Punctuation
'' Text.Whitespace
'r0' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'applyop' Name
'(' Punctuation
'^+' Name
';' Operator
'' Text.Whitespace
'1' Literal.Number.Integer
';' Operator
'' Text.Whitespace
'r' Name
';' Operator
'' Text.Whitespace
'1' Literal.Number.Integer
');' Punctuation
'\n' Text.Whitespace
'elif' Keyword
'' Text.Whitespace
'Testzero' Name
'(' Punctuation
'eval' Name.Builtin
'(' Punctuation
'' Text.Whitespace
'line' Name
';' Operator
'' Text.Whitespace
'x' Name
':=' Operator
'rhs' Name.Builtin
'(' Punctuation
'r' Name
'))' Punctuation

```

''      Text.Whitespace
'then'  Keyword
'\n'    ' Text.Whitespace
'x0'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'rhs'   Name.Builtin
'('     Punctuation
'r'     Name
');'    Punctuation
''      Text.Whitespace
'r0'    Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'applyop' Name
'('     Punctuation
'^-^'  Name
';'    Operator
''      Text.Whitespace
'2'    Literal.Number.Integer
';'    Operator
''      Text.Whitespace
'r'     Name
';'    Operator
''      Text.Whitespace
'1'    Literal.Number.Integer
');'   Punctuation
'\n'
      ' Text.Whitespace
'else'  Keyword
''      Text.Whitespace
'next'  Keyword
''      Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'if'    Keyword
';'    Punctuation
'\n'    ' Text.Whitespace
'else'  Keyword
'\n'    ' Text.Whitespace
'test'  Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation

```

'x0' Name
 ';' Operator
 '' Text.Whitespace
 'x1' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'res' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'res' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'evalb' Name.Builtin
 '(' Punctuation
 'not' Keyword
 ''
 Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'cond' Name
 ')(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'line' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '≡' Operator
 'x1' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '0' Literal.Number.Integer
 ');' Punctuation
 '\n ' Text.Whitespace
 '^if' Name
 '(' Punctuation
 'res' Name
 '' Text.Whitespace
 'in' Keyword

```

''      Text.Whitespace
''''    Punctuation
'{'     Punctuation
'true'  Name
';'     Operator
'false' Name
'}'     Punctuation
''''    Punctuation
'\n     ' Text.Whitespace
'and'   Keyword
''      Text.Whitespace
'evalb' Name.Builtin
'('     Punctuation
'op'
      Name.Builtin
'('     Punctuation
'0'     Literal.Number.Integer
';'     Operator
'cond'  Name
')('    Punctuation
'eval'  Name.Builtin
'('     Punctuation
'line'  Name
';'     Operator
''      Text.Whitespace
'x'     Name
'='     Operator
'x0'    Name
')'     Punctuation
';'     Operator
''      Text.Whitespace
'0'     Literal.Number.Integer
'))'    Punctuation
''      Text.Whitespace
'='     Operator
''      Text.Whitespace
'res'   Name
';'     Operator
'\n     ' Text.Whitespace
'res'   Name
';'     Operator
'\n     ' Text.Whitespace
'FAIL'  Name
')'     Punctuation
'\n     ' Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword

```

```

';'      Punctuation
'\n'    ' Text.Whitespace
'cond0'  Name
''      Text.Whitespace
':='    Operator
''
      Text.Whitespace
'test'   Name
'('      Punctuation
'lhs'    Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
';'      Operator
''      Text.Whitespace
'lhs'    Name.Builtin
'('      Punctuation
'r'      Name
')'      Punctuation
'+'      Operator
'1'      Literal.Number.Integer
');'     Punctuation
'\n'    ' Text.Whitespace
'if'     Keyword
''      Text.Whitespace
'cond0'  Name
''      Text.Whitespace
'<>'    Operator
''      Text.Whitespace
'FAIL'   Name
''      Text.Whitespace
'then'   Keyword
'\n'    ' Text.Whitespace
'x0'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'lhs'    Name.Builtin
'('      Punctuation
'r'      Name
');'     Punctuation
''      Text.Whitespace
'r0'     Name
''      Text.Whitespace
':='    Operator
''
      Text.Whitespace
'applyop' Name

```

```

 '('      Punctuation
 '^+'    Name
 ';'     Operator
 ''      Text.Whitespace
 '1'     Literal.Number.Integer
 ';'     Operator
 ''      Text.Whitespace
 'r'     Name
 ';'     Operator
 ''      Text.Whitespace
 '1'     Literal.Number.Integer
 ');'    Punctuation
 '\n'    ' Text.Whitespace
 'else'  Keyword
 '\n'    ' Text.Whitespace
 'cond0' Name
 ''      Text.Whitespace
 ':='    Operator
 ''      Text.Whitespace
 'test'  Name
 '('     Punctuation
 'rhs'   Name.Builtin
 '('     Punctuation
 'r'     Name
 ')'     Punctuation
 ';'     Operator
 ''      Text.Whitespace
 'rhs'   Name.Builtin
 '('     Punctuation
 'r'     Name
 ')'     Punctuation
 '-'     Operator
 '1'     Literal.Number.Integer
 ');'    Punctuation
 '\n'    ' Text.Whitespace
 'if'    Keyword
 ''      Text.Whitespace
 'cond0'
     Name
 ''      Text.Whitespace
 '<>'    Operator
 ''      Text.Whitespace
 'FAIL'  Name
 ''      Text.Whitespace
 'then'  Keyword
 '\n'    ' Text.Whitespace
 'x0'    Name
 ''      Text.Whitespace

```

```

':='      Operator
''       Text.Whitespace
'rhs'    Name.Builtin
'('      Punctuation
'r'      Name
');'     Punctuation
''       Text.Whitespace
'r0'     Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'applyop' Name
'('      Punctuation
'^_`'    Name
';'      Operator
''       Text.Whitespace
'2'      Literal.Number.Integer
';'      Operator
''       Text.Whitespace
'r'      Name
';'      Operator
''       Text.Whitespace
'1'      Literal.Number.Integer
');'     Punctuation
'\n'     ' Text.Whitespace
'else'   Keyword
''       Text.Whitespace
'next'   Keyword
''
Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
';'      Punctuation
'\n'     ' Text.Whitespace
'here'   Name
''       Text.Whitespace
':='     Operator

```

'' Text.Whitespace
 'subs' Name.Builtin
 '(' Punctuation
 'cond' Name
 '' Text.Whitespace
 '=' Operator
 ' Text.Whitespace
 'cond0' Name
 '' Text.Whitespace
 ';' Operator
 '' Text.Whitespace
 'body' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'rest' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subs' Name.Builtin
 '(' Punctuation
 'cond'
 Name
 '' Text.Whitespace
 '=' Operator
 '' Text.Whitespace
 'evalb' Name.Builtin
 '(' Punctuation
 'not' Keyword
 '' Text.Whitespace
 'cond0' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'body' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'make' Name
 '(' Punctuation
 'eval' Name.Builtin
 '(' Punctuation
 'here' Name
 ';' Operator
 '' Text.Whitespace
 'x' Name
 '=' Operator
 'x0' Name

```

')'      Punctuation
','      Operator
''       Text.Whitespace
'do_peel' Name
'('      Punctuation
'eval'   Name.Builtin
'('      Punctuation
'subst'  Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
'='      Operator
'rest'   Name
','      Operator
'
'
'       Text.Whitespace
 '['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
']'      Punctuation
'='      Operator
'r0'     Name
','      Operator
''       Text.Whitespace
'e'      Name
')));'   Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'do'     Keyword
','      Punctuation
'\n '    Text.Whitespace
'return' Keyword
''       Text.Whitespace
'e'      Name
','      Punctuation
'\n '    Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
','      Punctuation
'\n\n '  Text.Whitespace
'# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)\n' Comment.Single
'
'       Text.Whitespace
'split'  Name
''       Text.Whitespace
':='     Operator

```

'' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e'
 Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'subsindets' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'And' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ';' Operator
 'Sum' Name
 '})' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'And' Name
 '(' Punctuation
 '^*^' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 '^*^' Name
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 '^+^' Name
 '))))' Punctuation
 ';' Operator
 'name' Name
 '=' Operator
 'anything' Name
 '))' Punctuation
 "" Punctuation
 ';' Operator
 '\n

```

    ' Text.Whitespace
'do_split' Name
');' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n ' Text.Whitespace
'do_split' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'terms' Name
';' Operator
'' Text.Whitespace
'x' Name
';' Punctuation
'\n ' Text.Whitespace
'terms' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'convert' Name.Builtin
'(' Punctuation
'expand' Name.Builtin
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'1'
    Literal.Number.Integer
';' Operator
'e' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation

```

'indets' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'function' Name
 ')))' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 '''' Punctuation
 'list' Name
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 '^+' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'x' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '1'
 Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'e' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 '^+' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'map' Name.Builtin
 '(' Punctuation
 'proc' Keyword
 '(' Punctuation
 'term' Name
 ';' Operator
 '' Text.Whitespace

'\$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
's' Name
';' Operator
'' Text.Whitespace
'r' Name
';' Punctuation
'\n ' Text.Whitespace
's' Name
';' Operator
'' Text.Whitespace
'r' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'selectremove' Name.Builtin
'(' Punctuation
'depends' Name
';' Operator
''
Text.Whitespace
'convert' Name.Builtin
'(' Punctuation
'term' Name
';' Operator
'' Text.Whitespace
'''' Punctuation
'list' Name
'''' Punctuation
';' Operator
'' Text.Whitespace
'^*\' Name
')' Punctuation
';' Operator
'' Text.Whitespace
'x' Name
');' Punctuation
'\n ' Text.Whitespace
'^*\' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'r' Name
')' Punctuation
';' Operator

```

''      Text.Whitespace
'subsop' Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
'='     Operator
'^*`'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
's'     Name
'))'    Punctuation
';'     Operator
'e'     Name
'))'    Punctuation
'\n '   Text.Whitespace
'end'

      Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Operator
''      Text.Whitespace
'terms' Name
')))'   Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Punctuation
'\n\n ' Text.Whitespace
'# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)\n' Comment.Single

' '     Text.Whitespace
'graft' Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'proc'  Keyword
'('     Punctuation
'e'     Name
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'subsindets' Name.Builtin
'('     Punctuation
'e'     Name
';'     Operator

```

'' Text.Whitespace
 "" Punctuation
 'Or' Name
 '(' Punctuation
 'And' Name
 '(' Punctuation
 '^*' Name
 ','
 Operator
 'Not' Name
 '(' Punctuation
 '^*' Name
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'product' Name
 ';' Operator
 'Product' Name
 '))))))' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'And' Name
 '(' Punctuation
 '^+' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 '^+' Name
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ' ' Text.Whitespace
 ';' Operator
 'Sum' Name
 ' ' Text.Whitespace
 '))))))' Punctuation
 "" Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'do_graft' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword

'' Text.Whitespace
 'proc' Keyword
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_graft' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'produce' Name
 ';' Operator
 '' Text.Whitespace
 'factors' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Operator
 '' Text.Whitespace
 'j' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'produce' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '^if' Name
 '(' Punctuation
 'e' Name
 '::' Operator
 '^*^' Name
 ';' Operator
 '' Text.Whitespace
 '""' Punctuation
 '{'
 Punctuation
 'product' Name
 ';' Operator
 'Product' Name

'}' Punctuation
 "" Punctuation
 ';' Operator
 '\n' Text.Whitespace
 "" Punctuation
 '{' Punctuation
 'sum' Name
 ' ' Text.Whitespace
 ';' Operator
 'Sum' Name
 ' ' Text.Whitespace
 '}' Punctuation
 "" Punctuation
 ');' Punctuation
 '\n ' Text.Whitespace
 'factors' Name
 ' ' Text.Whitespace
 ':=' Operator
 ' ' Text.Whitespace
 'sort' Name.Builtin
 '(' Punctuation
 'convert' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 "" Punctuation
 'list' Name
 "" Punctuation
 ')' Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'key' Name
 ' ' Text.Whitespace
 '≡' Operator
 ' ' Text.Whitespace
 '('
 Punctuation
 'factor' Name
 ' ' Text.Whitespace
 '->' Operator
 ' ' Text.Whitespace
 '-' Operator
 'numboccur' Name.Builtin
 '(' Punctuation
 'factor' Name
 ';' Operator
 'produce' Name
 '));' Punctuation

```

\n ' Text.Whitespace
'for' Keyword
'' Text.Whitespace
'i' Name
'' Text.Whitespace
'from' Keyword
'' Text.Whitespace
'nops' Name.Builtin
'(' Punctuation
'factors' Name
')' Punctuation
'' Text.Whitespace
'to' Keyword
'' Text.Whitespace
'2' Literal.Number.Integer
'' Text.Whitespace
'by' Keyword
'' Text.Whitespace
'-' Operator
'1' Literal.Number.Integer
'' Text.Whitespace
'do' Keyword
\n ' Text.Whitespace
'for' Keyword
'' Text.Whitespace
'j' Name
''

Text.Whitespace
'from' Keyword
'' Text.Whitespace
'i' Name
'-' Operator
'1' Literal.Number.Integer
'' Text.Whitespace
'to' Keyword
'' Text.Whitespace
'1' Literal.Number.Integer
'' Text.Whitespace
'by' Keyword
'' Text.Whitespace
'-' Operator
'1' Literal.Number.Integer
'' Text.Whitespace
'do' Keyword
\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'op' Name.Builtin

```

'(' Punctuation
 'j' Name
 ';' Operator
 'factors' Name
 ')' Punctuation
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 'And' Name
 '''' Punctuation
 '(' Punctuation
 '''' Punctuation
 'specfunc' Name
 '''' Punctuation
 '(' Punctuation
 'produce' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 '''' Punctuation
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 'name' Name
 '=' Operator
 'range' Name
 ')' Punctuation
 '''' Punctuation
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'Testzero' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name
 ';' Operator
 'factors' Name
 ')' Punctuation
 '' Text.Whitespace
 '-' Operator
 '' Text.Whitespace

'eval' Name.Builtin
 '(' Punctuation
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '=' Operator
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '-' Operator
 '1' Literal.Number.Integer
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' Text.Whitespace
 'factors' Name
 '' Text.Whitespace
 ':=' Operator

```

''      Text.Whitespace
'subsop'
  Name.Builtin
'('     Punctuation
'i'     Name
'='     Operator
'NULL'  Name
';'     Operator
'applyop' Name
'('     Punctuation
'^_`'  Name
';'     Operator
'['     Punctuation
']'     Name
';'     Operator
'2'     Literal.Number.Integer
';'     Operator
'2'     Literal.Number.Integer
';'     Operator
'1'     Literal.Number.Integer
']'     Punctuation
';'     Operator
'factors' Name
';'     Operator
'1'     Literal.Number.Integer
')):'  Punctuation
'\n'    ' Text.Whitespace
'break' Keyword
'\n'    ' Text.Whitespace
'elif'  Keyword
''      Text.Whitespace
'Testzero' Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'i'     Name
';'     Operator
'factors' Name
')'     Punctuation
''      Text.Whitespace
'-'     Operator
''      Text.Whitespace
'eval'
  Name.Builtin
'('     Punctuation
'op'    Name.Builtin
'(['    Punctuation
']'     Name

```

';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '=' Operator
 'op' Name.Builtin
 '[' Punctuation
 'j' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ')' Punctuation
 '+' Operator
 '1' Literal.Number.Integer
 '))' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' Text.Whitespace
 'factors' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'subsop' Name.Builtin
 '(' Punctuation
 'i' Name
 '=' Operator

'NULL' Name
 ';' Operator
 'applyop' Name
 '(' Punctuation
 '^+' Name
 ';' Operator
 '[' Punctuation
 ']' Name
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
 'factors' Name
 ';' Operator
 '1' Literal.Number.Integer
 ');' Punctuation
 '\n ' Text.Whitespace
 'break' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 ''
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'do' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'e' Name
 ')((' Punctuation
 'op' Name.Builtin

```

 '('      Punctuation
 'factors' Name
 '))'     Punctuation
 '\n '    Text.Whitespace
 'end'    Keyword
 ''       Text.Whitespace
 'proc'   Keyword
 ';'      Punctuation
 '\n\n '  Text.Whitespace
 '# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)\n' Comment.Single

 ''       Text.Whitespace
 'rebase_lower' Name
 ''       Text.Whitespace
 ':='     Operator
 ,
 '       Text.Whitespace
 'proc'   Keyword
 '('      Punctuation
 'e'      Name
 ';'      Operator
 ''       Text.Whitespace
 '$'      Operator
 ')'      Punctuation
 '\n '    Text.Whitespace
 'subsindets' Name.Builtin
 '('      Punctuation
 'e'      Name
 ';'      Operator
 ''       Text.Whitespace
 """"     Punctuation
 'And'    Name
 '('      Punctuation
 'specfunc' Name
 '({'     Punctuation
 'sum'    Name
 ';'      Operator
 'Sum'    Name
 ';'      Operator
 'product' Name
 ';'      Operator
 'Product' Name
 ')}'     Punctuation
 ';'      Operator
 '\n      ' Text.Whitespace
 'anyfunc' Name
 '('      Punctuation
 'anything' Name

```

';' Operator
 '\n' Text.Whitespace
 'name' Name
 '≡' Operator
 'Not' Name
 '{' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'SymbolicInfinity'
 Name
 ';' Operator
 'undefined' Name
 '})' Punctuation
 '..' Operator
 'anything' Name
 '))' Punctuation
 '"""' Punctuation
 ';' Operator
 '\n' Text.Whitespace
 'do_rebase_lower' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'do_rebase_lower' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'subsop' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 '≡'

Operator

'0' Literal.Number.Integer
';' Operator
'\n' ' Text.Whitespace
'applyop' Name
'(' Punctuation
'~\'' Name
';' Operator
'\n' ' Text.Whitespace
'[' Punctuation
'2' Literal.Number.Integer
';' Operator
'2' Literal.Number.Integer
';' Operator
'2' Literal.Number.Integer
';' Operator
'\n' ' Text.Whitespace
'applyop' Name
'(' Punctuation
'eval' Name.Builtin
';' Operator
' ' Text.Whitespace
'1' Literal.Number.Integer
';' Operator
' ' Text.Whitespace
'e' Name
';' Operator
' ' Text.Whitespace
'op' Name.Builtin
'([' Punctuation
'2' Literal.Number.Integer
';' Operator
'1' Literal.Number.Integer
';' Operator
'e'

Name

')' Punctuation
'=' Operator
'op' Name.Builtin
'([' Punctuation
'2' Literal.Number.Integer
';' Operator
'1' Literal.Number.Integer
';' Operator
'e' Name

```

')'      Punctuation
'+'      Operator
'op'     Name.Builtin
'(['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'e'      Name
'))'     Punctuation
','      Operator
'\n      ' Text.Whitespace
'op'     Name.Builtin
'(['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'e'      Name
')))'    Punctuation
'\n
'      Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
','      Punctuation
'\n\n '   Text.Whitespace
'# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)\n' Comment.Single

''       Text.Whitespace
'rebase_upper' Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'proc'   Keyword
'('      Punctuation
'e'      Name
','      Operator
''       Text.Whitespace
'$'      Operator
')'      Punctuation
'\n '    Text.Whitespace

```

'subsindets' Name.Builtin
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 "" Punctuation
 'And' Name
 '(' Punctuation
 'specfunc' Name
 '({' Punctuation
 'sum' Name
 ';' Operator
 'Sum' Name
 ';' Operator
 'product' Name
 ';' Operator
 'Product' Name
 '})' Punctuation
 ';' Operator
 '\n
 ' Text.Whitespace
 'anyfunc' Name
 '(' Punctuation
 'anything' Name
 ';' Operator
 '\n ' Text.Whitespace
 'name' Name
 '=' Operator
 'anything' Name
 '..' Operator
 'Not' Name
 '({' Punctuation
 '0' Literal.Number.Integer
 ';' Operator
 'SymbolicInfinity' Name
 ';' Operator
 'undefined' Name
 '))))' Punctuation
 "" Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'do_rebase_upper' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'proc' Keyword
 ';' Punctuation

```

\n ' Text.Whitespace
'do_rebase_upper' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
 '(' Punctuation
 'e' Name
 ';' Operator
 '' Text.Whitespace
 '$' Operator
 ')'
 Punctuation
\n ' Text.Whitespace
'subsop' Name.Builtin
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ']' Punctuation
 '=' Operator
 '0' Literal.Number.Integer
 ';' Operator
\n ' Text.Whitespace
'applyop' Name
 '(' Punctuation
 '^-' Name
 ';' Operator
\n ' Text.Whitespace
 '[' Punctuation
 '2' Literal.Number.Integer
 ';' Operator
 '2' Literal.Number.Integer
 ';' Operator
 '1' Literal.Number.Integer
 ']' Punctuation
 ';' Operator
\n ' Text.Whitespace
'applyop' Name
 '(' Punctuation
'eval' Name.Builtin
 ';' Operator
'' Text.Whitespace
'1' Literal.Number.Integer
 ';' Operator
''

```

```

Text.Whitespace
'e'   Name
';'   Operator
''    Text.Whitespace
'op'  Name.Builtin
'(['  Punctuation
'2'   Literal.Number.Integer
';'   Operator
'1'   Literal.Number.Integer
']'   Punctuation
';'   Operator
'e'   Name
')'   Punctuation
'='   Operator
'op'  Name.Builtin
'(['  Punctuation
'2'   Literal.Number.Integer
';'   Operator
'1'   Literal.Number.Integer
']'   Punctuation
';'   Operator
'e'   Name
')'   Punctuation
'+'   Operator
'op'  Name.Builtin
'(['  Punctuation
'2'   Literal.Number.Integer
';'   Operator
'2'   Literal.Number.Integer
';'   Operator
'2'   Literal.Number.Integer
']'   Punctuation
';'   Operator
'e'   Name
'))'  Punctuation
';'   Operator
'\n   ' Text.Whitespace
'op'

```

```

Name.Builtin
'(['  Punctuation
'2'   Literal.Number.Integer
';'   Operator
'2'   Literal.Number.Integer
';'   Operator
'2'   Literal.Number.Integer
']'   Punctuation
';'   Operator
'e'   Name

```

```

'))' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n\n ' Text.Whitespace
'ModuleLoad' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'proc' Keyword
'($)' Punctuation
'\n ' Text.Whitespace
'# Override csgn to work a little bit harder on piecewise and sum\n' Comment.Single

' ' Text.Whitespace
'# (to get rid of csgn(1/2+1/2*sum(piecewise(...,1,0),...))\n' Comment.Single

' ' Text.Whitespace
'# produced by int on a Gaussian mixture model)\n' Comment.Single

' ' Text.Whitespace
'unprotect' Name
'(' Punctuation
'csgn'
    Name
');' Punctuation
'\n ' Text.Whitespace
'csgn' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'overload' Name
'([' Punctuation
'\n ' Text.Whitespace
"# Handle if the csgn of a piecewise doesn't depend on which branch\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'specfunc' Name
'(' Punctuation
'piecewise' Name.Builtin

```

')' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator
 ')' Punctuation
 '\n ' Text.Whitespace
 'option' Keyword
 '' Text.Whitespace
 'overload' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'local' Keyword
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'i'
 Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '{' Punctuation
 'seq' Name.Builtin
 '(' Punctuation
 '^if' Name
 '(' Punctuation
 'i' Name
 '::' Operator
 'even' Name
 '' Text.Whitespace
 'or' Keyword
 '' Text.Whitespace
 'i' Name
 '=' Operator
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'csgn' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name

';' Operator
 'a' Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'NULL' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'i'
 Name
 '=' Operator
 '1' Literal.Number.Integer
 '..' Punctuation
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 '));' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '=' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'assigned' Name.Builtin
 '('_ Punctuation

'Envsignum0' Name
')'
Punctuation
'' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'r' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'r' Name
'' Text.Whitespace
'minus' Keyword
'' Text.Whitespace
'{' Punctuation
'0' Literal.Number.Integer
'};' Punctuation
'\n ' Text.Whitespace
'if' Keyword
'' Text.Whitespace
'nops' Name.Builtin
'(' Punctuation
'r' Name
')' Punctuation
'=' Operator
'1' Literal.Number.Integer
'' Text.Whitespace
'then' Keyword
'' Text.Whitespace
'return' Keyword
'' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'r' Name
')' Punctuation
'' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n
' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'error' Keyword

```

''      Text.Whitespace
'''invalid input: cannot csgn %1''' Literal.String
';'     Operator
''      Text.Whitespace
'a'     Name
';'     Punctuation
'\n '   Text.Whitespace
'end'   Keyword
''      Text.Whitespace
'proc'  Keyword
';'     Operator
'\n '   Text.Whitespace
"# Handle if the csgn of a sum doesn't depend on the bound variable\n" Comment.Single

' '     Text.Whitespace
'proc'  Keyword
'('     Punctuation
'a'     Name
''      Text.Whitespace
'::'    Operator
''      Text.Whitespace
'And'   Name
'('     Punctuation
'specfunc' Name
'({'    Punctuation
'sum'   Name
';'     Operator
''      Text.Whitespace
'Sum'   Name
'})'    Punctuation
';'
      Operator
''      Text.Whitespace
'anyfunc' Name
'('     Punctuation
'anything' Name
';'     Operator
''      Text.Whitespace
'name'  Name
'='     Operator
'range' Name
'))'    Punctuation
';'     Operator
''      Text.Whitespace
'$'     Operator
')'     Punctuation
'\n '   Text.Whitespace
'option' Keyword

```

```

''      Text.Whitespace
'overload' Name
';'     Punctuation
'\n    ' Text.Whitespace
'local'  Keyword
''      Text.Whitespace
'r'     Name
';'     Punctuation
'\n    ' Text.Whitespace
'r'     Name
''      Text.Whitespace
':='    Operator
''      Text.Whitespace
'csgn'   Name
'('     Punctuation
'op'    Name.Builtin
'('     Punctuation
'1'     Literal.Number.Integer
';'     Operator
'a'     Name
'))';   Punctuation
'\n    ' Text.Whitespace
'if'    Keyword
''
''
Text.Whitespace
'not'   Keyword
''      Text.Whitespace
'depends' Name
'('     Punctuation
'r'     Name
';'     Operator
'op'    Name.Builtin
'(['   Punctuation
'2'     Literal.Number.Integer
';'     Operator
'1'     Literal.Number.Integer
']'     Punctuation
';'     Operator
'a'     Name
'))'   Punctuation
''      Text.Whitespace
'then'  Keyword
'\n    ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
'signum' Name
'('     Punctuation
'op'    Name.Builtin

```

```

'(' Punctuation
'2' Literal.Number.Integer
',' Operator
'2' Literal.Number.Integer
',' Operator
'2' Literal.Number.Integer
']' Punctuation
',' Operator
'a' Name
')' Punctuation
'+' Operator
'1' Literal.Number.Integer
'-' Operator
'op' Name.Builtin
'('
    Punctuation
'2' Literal.Number.Integer
',' Operator
'2' Literal.Number.Integer
',' Operator
'1' Literal.Number.Integer
']' Punctuation
',' Operator
'a' Name
'))' Punctuation
'' Text.Whitespace
'*' Operator
'' Text.Whitespace
'r' Name
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'if' Keyword
',' Punctuation
'\n ' Text.Whitespace
'error' Keyword
'' Text.Whitespace
'''invalid input: cannot csgn %1''' Literal.String
',' Operator
'' Text.Whitespace
'a' Name
',' Punctuation
'\n ' Text.Whitespace
'end' Keyword
'' Text.Whitespace
'proc' Keyword
',' Operator
'\n ' Text.Whitespace

```

```

'csgn'   Name
');'    Punctuation
'\n '   Text.Whitespace
'protect' Name
'('
    Punctuation
'csgn'   Name
');'    Punctuation
'\n\n ' Text.Whitespace
'# Do the same to signum.\n' Comment.Single

' '    Text.Whitespace
'unprotect' Name
'('    Punctuation
'signum' Name
');'   Punctuation
'\n '  Text.Whitespace
'signum' Name
''     Text.Whitespace
':='   Operator
''     Text.Whitespace
'overload' Name
'(['   Punctuation
'\n '  Text.Whitespace
"# Handle if the signum of a piecewise doesn't depend on which branch\n" Comment.Single

' '    Text.Whitespace
'proc' Keyword
'('    Punctuation
'a'    Name
''     Text.Whitespace
'::'   Operator
''     Text.Whitespace
'specfunc' Name
'('    Punctuation
'piecewise' Name.Builtin
')'    Punctuation
';'    Operator
''     Text.Whitespace
'$'    Operator
')'    Punctuation
'\n '  Text.Whitespace
'option' Keyword
''
Text.Whitespace
'overload' Name
';'    Punctuation
'\n '  Text.Whitespace

```

'local' Keyword
 '' Text.Whitespace
 'r' Name
 ';' Operator
 '' Text.Whitespace
 'i' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 '{' Punctuation
 'seq' Name.Builtin
 '(' Punctuation
 '~if' Name
 '(' Punctuation
 'i' Name
 '::' Operator
 'even' Name
 '' Text.Whitespace
 'or' Keyword
 '' Text.Whitespace
 'i' Name
 '=' Operator
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'signum' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'i' Name
 ';' Operator
 'a'
 Name
 '))' Punctuation
 ';' Operator
 '' Text.Whitespace
 'NULL' Name
 ')' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'i' Name
 ':=' Operator

'1' Literal.Number.Integer
 '..' Punctuation
 'nops' Name.Builtin
 '(' Punctuation
 'a' Name
 '));' Punctuation
 '\n' ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'nops' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '==' Operator
 '1' Literal.Number.Integer
 '' Text.Whitespace
 'then' Keyword
 '' Text.Whitespace
 'return' Keyword
 '' Text.Whitespace
 'op' Name.Builtin
 '(' Punctuation
 'r' Name
 ')' Punctuation
 '' Text.Whitespace
 'end' Keyword
 '' Text.Whitespace
 'if' Keyword
 ';' Punctuation
 '\n' ' Text.Whitespace
 '' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 'assigned' Name.Builtin
 '(_' Punctuation
 'Envsignum0' Name
 ')' Punctuation
 '' Text.Whitespace
 'then' Keyword
 '\n' ' Text.Whitespace
 'r' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'r' Name
 '' Text.Whitespace

```

'minus'    Keyword
''         Text.Whitespace
'{'        Punctuation
'0'        Literal.Number.Integer
'};'       Punctuation
'\n'       ' Text.Whitespace
'if'       Keyword
''         Text.Whitespace
'nops'     Name.Builtin
'('        Punctuation
'r'        Name
')'        Punctuation
'='        Operator
'1'        Literal.Number.Integer
''         Text.Whitespace
'then'     Keyword
''         Text.Whitespace
'return'   Keyword
''         Text.Whitespace
'op'       Name.Builtin
'('        Punctuation
          Punctuation
'r'        Name
')'        Punctuation
''         Text.Whitespace
'end'      Keyword
''         Text.Whitespace
'if'       Keyword
';'        Punctuation
'\n'       ' Text.Whitespace
'end'      Keyword
''         Text.Whitespace
'if'       Keyword
';'        Punctuation
'\n'       ' Text.Whitespace
'error'    Keyword
''         Text.Whitespace
'''invalid input: cannot signum %1''' Literal.String
';'        Operator
''         Text.Whitespace
'a'        Name
';'        Punctuation
'\n'       ' Text.Whitespace
'end'      Keyword
''         Text.Whitespace
'proc'     Keyword
';'        Operator
'\n'       ' Text.Whitespace

```

"# Handle if the signum of a sum doesn't depend on the bound variable\n" Comment.Single

```
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
'' Text.Whitespace
'::' Operator
'' Text.Whitespace
'And'
  Name
'(' Punctuation
'specfunc' Name
'({' Punctuation
'sum' Name
';' Operator
'' Text.Whitespace
'Sum' Name
'})' Punctuation
';' Operator
'' Text.Whitespace
'anyfunc' Name
'(' Punctuation
'anything' Name
';' Operator
'' Text.Whitespace
'name' Name
'=' Operator
'range' Name
'))' Punctuation
';' Operator
'' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'option' Keyword
'' Text.Whitespace
'overload' Name
';' Punctuation
'\n ' Text.Whitespace
'local' Keyword
'' Text.Whitespace
'r' Name
';' Punctuation
'\n ' Text.Whitespace
'r' Name
'' Text.Whitespace
':=' Operator
```

```

''      Text.Whitespace
'signum'  Name
'('      Punctuation
'op'
      Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
','      Operator
'a'      Name
'))';'   Punctuation
'\n'     ' Text.Whitespace
'if'     Keyword
''      Text.Whitespace
'not'    Keyword
''      Text.Whitespace
'depends' Name
'('      Punctuation
'r'      Name
','      Operator
'op'     Name.Builtin
'(['    Punctuation
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'a'      Name
'))'     Punctuation
''      Text.Whitespace
'then'   Keyword
'\n'     ' Text.Whitespace
'return' Keyword
''      Text.Whitespace
'signum' Name
'('      Punctuation
'op'     Name.Builtin
'(['    Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
']'
      Punctuation
','      Operator
'a'      Name
')'      Punctuation
'+'      Operator

```

```

'1'      Literal.Number.Integer
'-'      Operator
'op'     Name.Builtin
'(['     Punctuation
'2'      Literal.Number.Integer
','      Operator
'2'      Literal.Number.Integer
','      Operator
'1'      Literal.Number.Integer
']'      Punctuation
','      Operator
'a'      Name
'))'     Punctuation
''       Text.Whitespace
'*'      Operator
''       Text.Whitespace
'r'      Name
'\n'     ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
','      Punctuation
'\n'     ' Text.Whitespace
'error'  Keyword
''       Text.Whitespace
'''invalid input: cannot signum % 1''' Literal.String
','      Operator
''       Text.Whitespace
'a'      Name
','      Punctuation
'\n'     ' Text.Whitespace
'end'    Keyword
'
'       Text.Whitespace
'proc'   Keyword
','      Operator
'\n'     ' Text.Whitespace
'signum' Name
']);'    Punctuation
'\n'     ' Text.Whitespace
'protect' Name
'('      Punctuation
'signum' Name
');'     Punctuation
'\n\n'   ' Text.Whitespace
'# Override sum to fail faster\n' Comment.Single
' '      Text.Whitespace

```

'unprotect' Name
 '(' Punctuation
 'sum' Name
 ');' Punctuation
 '\n ' Text.Whitespace
 'sum' Name
 '' Text.Whitespace
 ':=' Operator
 '' Text.Whitespace
 'overload' Name
 '[' Punctuation
 '\n ' Text.Whitespace
 'proc' Keyword
 '(' Punctuation
 'f' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'Not' Name
 '{' Punctuation
 '^+' Name
 ';' Operator
 '^+' Name
 '^' Operator
 'integer' Name
 '})' Punctuation
 ';' Operator
 '\n ' Text.Whitespace
 'k' Name
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 'name' Name
 '=' Operator
 'And' Name
 '(' Punctuation
 'range' Name
 ';' Operator
 'Not' Name
 '(' Punctuation
 'range' Name
 '(' Punctuation
 'rational' Name
 ')))' Punctuation
 ';' Operator
 '' Text.Whitespace
 '\$' Operator

')' Punctuation
 '\n ' Text.Whitespace
 'option' Keyword
 '' Text.Whitespace
 'overload' Name
 ';' Punctuation
 '\n ' Text.Whitespace
 'if' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 '(' Punctuation
 '^-' Name
 '(' Punctuation
 'op' Name.Builtin
 '(' Punctuation
 'rhs' Name.Builtin
 '(' Punctuation
 'k' Name
 ')))'
 Punctuation
 '' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 'rational' Name
 '''' Punctuation
 ')' Punctuation
 '\n ' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'not' Keyword
 '' Text.Whitespace
 '(' Punctuation
 'subsindets' Name.Builtin
 '(' Punctuation
 'f' Name
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 'anything' Name
 '^' Operator
 'integer' Name
 '''' Punctuation
 ';' Operator
 '' Text.Whitespace
 'f' Name
 '->' Operator

'op' Name.Builtin
 '(' Punctuation
 '1' Literal.Number.Integer
 ';' Operator
 'f' Name
 '))' Punctuation
 '\n ' Text.Whitespace
 '::' Operator
 '' Text.Whitespace
 '''' Punctuation
 '{' Punctuation
 '^+'
 Name
 ';' Operator
 'And' Name
 '(' Punctuation
 '^*'
 ';' Operator
 'Not' Name
 '(' Punctuation
 '^*'
 '(' Punctuation
 'Not' Name
 '(' Punctuation
 '^+' Name
 '))))}' Punctuation
 '''' Punctuation
 ')' Punctuation
 '\n ' Text.Whitespace
 'and' Keyword
 '' Text.Whitespace
 'depends' Name
 '(' Punctuation
 'indets' Name.Builtin
 '(' Punctuation
 'f' Name
 ';' Operator
 '' Text.Whitespace
 '''' Punctuation
 '{' Punctuation
 'specfunc' Name
 '(' Punctuation
 'idx' Name
 ')' Punctuation
 ';' Operator
 '' Text.Whitespace
 'specindex' Name
 '(' Punctuation

```

'idx'    Name
')}}'   Punctuation
''''     Punctuation
')'      Punctuation
';'      Operator
''       Text.Whitespace
'op'
    Name.Builtin
'('      Punctuation
'1'      Literal.Number.Integer
';'      Operator
'k'      Name
')}}'   Punctuation
'\n    ' Text.Whitespace
'then'   Keyword
'\n    ' Text.Whitespace
''''     Punctuation
'procname' Name
'(_'     Punctuation
'passed' Name
')'      Punctuation
''''     Punctuation
'\n    ' Text.Whitespace
'else'   Keyword
'\n    ' Text.Whitespace
'error'  Keyword
''       Text.Whitespace
'''invalid input: cannot fast-fail sum(%1, %2)''' Literal.String
';'      Operator
''       Text.Whitespace
'_passed' Name
'\n    ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'if'     Keyword
'\n    ' Text.Whitespace
'end'    Keyword
''       Text.Whitespace
'proc'   Keyword
';'      Operator
'\n    ' Text.Whitespace
'sum'    Name
'])';'   Punctuation
'\n    ' Text.Whitespace
'protect' Name
'('      Punctuation
'sum'    Name

```

```

);'      Punctuation
'\n\n '  Text.Whitespace
':'      Operator
'-'      Operator
`print/Ints` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'  Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator
'Print'  Name
';'      Operator
'Ints'   Name
);'      Punctuation
'\n '    Text.Whitespace
':'      Operator
'-'      Operator
`print/Sums` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'  Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator
'Print'  Name
';'      Operator
'Sums'   Name
);'      Punctuation
'\n '    Text.Whitespace
':'      Operator
'-'      Operator
`print/int` Name
''       Text.Whitespace
':='     Operator
''       Text.Whitespace
'curry'
      Name
'('      Punctuation
'thismodule' Name
':'      Operator
'-'      Operator
'Print'  Name
';'      Operator

```

'ints' Name
)';' Punctuation
\n ' Text.Whitespace
'.' Operator
'-' Operator
^print/sums`' Name
' ' Text.Whitespace
':= ' Operator
' ' Text.Whitespace
'curry' Name
'(' Punctuation
'thismodule' Name
'.' Operator
'-' Operator
'Print' Name
'.' Operator
'sums' Name
)';' Punctuation
\n\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
'.' Punctuation
\n ' Text.Whitespace
'ModuleLoad' Name
'()' Punctuation
'.' Operator
\n' Text.Whitespace

'end' Keyword
' ' Text.Whitespace
'module' Keyword
'.' Punctuation
' ' Text.Whitespace
'# Loop\n' Comment.Single

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1.350 @babel/core 7.28.0

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1.351 process 0.11.10

1.351.1 Available under license :

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1.352 typing-extensions 4.12.2

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <https://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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.355 packaging 24.2

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Parts of the XSD handling are heavily inspired by soapfish, see:

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The support for BinarySecurityToken is from py-wsse, see:

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1.359 resize-observer-polyfill 1.5.1

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1.360 @splunk/ui-utils 1.10.0

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1.361 diff 8.0.2

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1.362 azure-mgmt-core 1.5.0

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1.363 @splunk/react-time-range 11.1.0

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1.364 urwid 3.0.2

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1.366 azure-keyvault-keys 4.10.0

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The first commit to the Celery codebase was made on Fri Apr 24 13:30:00 2009 +0200, and has since then been improved by many contributors.

Everyone who have ever contributed to Celery should be in this list, but in a recent policy change it has been decided that everyone must add themselves here, and not be added by others, so it's currently incomplete waiting for everyone to add their names.

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Footnotes

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