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1.2 croniter 0.3.31

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1.4 psycopg 2.8.6

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1.5 gitdb 4.0.5

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1.6 resize-observer-polyfill 1.5.1

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1.7 backports-abc 0.5

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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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1.10 query-string 6.14.1

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django-dotenv-rw

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1.17 hvac 0.10.14

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1.19 memoize-one 5.2.1

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1.21 yup 0.32.11

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1.25 babel-plugin-istanbul 6.1.1

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1.39 rfc3339-validator 0.1.4

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1.53 robotframework-sshlibrary 3.8.0

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1.54 jsoneditor-react 3.1.2

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1.56 supervisor 4.2.5

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1.57 future 0.18.3

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1.58 crashtest 0.4.1

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1.59 babel-plugin-proposal-optional-chaining

7.21.0

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1.65 robotframework-archivelibrary 0.4.2

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1.69 types-react-dom 16.9.19

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1.74 pydantic 1.10.13

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1.77 immer 9.0.21

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1.79 @tanstack/react-query-devtools 4.36.1

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1.81 html5lib 1.1

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1.82 enum34 1.1.10

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1.85 prop-types 15.8.1

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

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1.97 moment-timezone 0.5.45

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1.98 redux 5.0.1

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1.99 types-react-dom 17.0.25

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```
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  "compilerOptions": {
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    "noImplicitThis": true,
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  },
  "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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```


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  },
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  ]
}
```

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
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  ]
}
{
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    "angular-permission-tests.ts"
  ],
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    "lib": [
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      "dom"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": false,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  }
}
{
  "compilerOptions": {
    "module": "node16",
```

```

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

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1.100 asgiref 3.8.1

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1.101 react-markdown 8.0.7

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1.102 gitpython 3.1.43

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1.103 distro 1.8.0

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1.104 colorama 0.4.6

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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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1.107 process 0.11.10

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1.108 python3-asn1crypto 1.5.1

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1.109 appdirs 1.4.4

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1.110 python-dateutil 2.9.0.post0

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dateutil - Extensions to the standard Python datetime module.

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1.111 events 3.3.0

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1.112 pygments 2.18.0

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```
---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
        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

'WRKSRRC' Name.Variable
'='      Operator
'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WRKSRRC' Name.Variable
'}'      Literal.String.Interpol
'/portbld.static' Text
'\n'     Text.Whitespace

'PATCH_WRKSRRC' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WRKSRRC' 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_WKSRC'

 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_WKSRRC' Name.Variable
'='        Operator
'\t'       Text.Whitespace
'${'       Literal.String.Interpol
'PYTHON_WKSRRC' 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

'TOOLSDIR' 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\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
'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
'${'        Literal.String.Interpol
'PATCH_WKSR' Name.Variable
'}'         Literal.String.Interpol
'/Tools/scripts/idle' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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
'${'        Literal.String.Interpol
'PATCH_WKSR' Name.Variable
'}'         Literal.String.Interpol
'/Lib/smtpd.py' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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|*\((.INSTALL_SCRIPT.*\)python-config$$|#port \1|" Literal.String.Single
''          Text.Whitespace
'\\n'       Literal.String.Escape

'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'    Text.Whitespace
'${'        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
'${'        Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Misc/python-config.in' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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
'${'      Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'       Literal.String.Interpol
'/Misc/python-config.in' Text
''        Text.Whitespace
'>'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'       Literal.String.Interpol
'/'        Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'        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
          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
'WRKSR'  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
'WRKSR'  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_WRKSR' 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_WKRSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WKRSRC'
        Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
'\n\t'  Text.Whitespace
'${'    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_WRKSRC' 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
'WRKSR'    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_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\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
'${'      Literal.String.Interpol
'SHARED_WKSRC' Name.Variable
'}'       Literal.String.Interpol
'/'        Text
'${'      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\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\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' 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_WKSR' 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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```

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1.113 babel-register 7.24.6

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1.114 python-requests 2.32.3

1.114.1 Available under license :

Requests

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1.115 babel-preset-typescript 7.24.7

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1.116 uwsgitop 0.12

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1.117 hvac 2.3.0

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1.118 loader-utils 3.3.1

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1.119 poetry-plugin-export 1.8.0

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1.120 robotframework 7.0.1

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1.121 redux-saga 1.3.0

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1.123 semver 7.6.3

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1.127 robotframework-requests 0.9.7

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1.128 @babel/core 7.25.2

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1.130 qs 6.13.0

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1.131 idna 3.7

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1.132 python-certifi 2024.7.4

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1.133 typing-extensions 4.12.2

1.133.1 Available under license :

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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

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1.134 configparser 7.1.0

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1.135 @babel/preset-env 7.25.4

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1.136 babel-plugin-transform-runtime 7.25.4

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1.137 paramiko 3.4.1

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Any

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1.145 Zustand 4.5.5

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1.146 treq 24.9.1

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1.147 distlib 0.3.9

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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	Year	Owner	GPL-
	from			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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=====
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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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1.148 humanize 4.11.0

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1.155 simplejson 3.19.3

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1.156 cached-property 2.0.1

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1.157 splunk-sdk 2.1.0

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1.158 axios 1.7.9

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1.159 fastjsonschema 2.21.1

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1.160 sqlparse 0.5.3

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1.162 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)
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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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/README.md
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.. _license:

License
=====

.. include:: ../../LICENSE.rst

Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/license.rst
No license file was found, but licenses were detected in source scan.

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>
 License: BSD-2-Clause
 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
 Classifier: Intended Audience :: Information Technology
 Classifier: Intended Audience :: System Administrators
 Classifier: Intended Audience
 :: Telecommunications Industry
 Classifier: License :: OSI Approved :: BSD License
 Classifier: Natural Language :: English
 Classifier: Operating System :: OS Independent
 Classifier: Programming Language :: Python :: 3
 Classifier: Programming Language :: Python :: 3.8
 Classifier: Programming Language :: Python :: 3.9
 Classifier: Programming Language :: Python :: 3.10
 Classifier: Programming Language :: Python :: 3.11
 Classifier: Programming Language :: Python :: 3.12
 Classifier: Programming Language :: Python :: 3.13
 Classifier: Programming Language :: Python :: Implementation :: CPython
 Classifier: Programming Language :: Python :: Implementation :: PyPy
 Classifier: Topic :: Communications
 Classifier: Topic :: Software Development :: Libraries :: Python Modules
 Requires-Python: >=3.8
 Description-Content-Type: text/markdown
 License-File: LICENSE.rst

ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
 [![Python
 Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/
 [![Build
 status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/
 1/actions/workflows/main.yml)
 [![Coverage
 Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)
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blue.svg)](<https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt>)

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>).

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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\* /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](mailto: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
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/__main__.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_tag.py
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* /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

```

## 1.163 pyasn1-modules 0.4.1

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## 1.164 charset-normalizer 3.4.1

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-----

17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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# 1.165 packaging 24.2

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## 1.166 pycparser 2.22

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## 1.177 secretstorage 3.3.3

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## 1.178 jaraco.classes 3.4.0

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# 1.180 prompt-toolkit 3.0.48

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# 1.181 @types/react 17.0.83

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## 1.182 pyjwt 2.4.0

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## 1.183 @babel/plugin-proposal-class-properties 7.18.6

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## 1.184 pyyaml 6.0.2

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# 1.185 poetry-core 1.9.1

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# 1.186 shellingham 1.5.4

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# 1.187 build 1.2.2.post1

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# 1.188 lazy-object-proxy 1.10.0

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## 1.191 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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# 1.192 pathable 0.4.4

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# 1.193 python-magic 0.4.27

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## 1.194 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  
         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
 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
'appliable' 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
'' 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(piecewise)' 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_piecewise: KB of piecewise conditions is not valid, so the input piecewise must
not be valid.");
e, kb
end proc;

```

```

 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(maptype(`+`,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_pieewise(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 * pieewise_And(rest,1,0));
`if`(wExp = 0, 1, exp(maptype('+', logmake, wExp)))

* pieewise_And(rest, *(op(e)),1);
end proc;

Rewrite product(...pieewise(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 -> -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
 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(`+`))}'))
 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

'WRKSRRC' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.static' Text
'\n' Text.Whitespace

'PATCH_WRKSRRC' Name.Variable
'=' Operator
'\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRRC' 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

'TOOLSDIR' 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\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
```

```

'WRKSRRC' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRRC' Name.Variable
'}' Literal.String.Interpol
'/Modules' Text
'\n\t' Text.Whitespace
'${' 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_WRKSRRC' 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_WRKSRRC' 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|^\(*prefixes = .*\\)\$${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.*\\)\$${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|*\\(\\.INSTALL_SCRIPT.*\\)python-config$$|#port \\1|''' Literal.String.Single
'' Text.Whitespace
'\\n' Literal.String.Escape

'\t\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\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
'${' Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
'' Text.Whitespace
'>' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' 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
'WKRSRC' 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
'WKRSRC' 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
'WRKSR' 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_WRKSR' 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
'${' Literal.String.Interpol
'PYTHON_WKRSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'WKRSRC'
 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,s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$$(VERSION).so," Literal.String.Single
'' Text.Whitespace
'\\n' Literal.String.Escape

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

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

'\t\t' Text.Whitespace
'-e' Text
'' Text.Whitespace
"s,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' Text.Whitespace  
 '-e' Text  
 '' Text.Whitespace  
 '"s,^\\((BUILDPYTHON):.\*\\).(LIBRARY),\\1,'" Literal.String.Single  
 '' Text.Whitespace  
 '\\n' Literal.String.Escape  
  
 '\\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\_WRKSRC' 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  
 '\n{ print \$\$0; } \\n\t/LIBDIR.\*\\.py\$\$/ && !\\bad/ { print \$\$0 "o"; print \$\$0 "c"; }\\n' 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
'WRKSR' 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_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\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
' 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\_WKRSRC' 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\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\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\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_WKSRC' 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' 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
';' 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/int` Name  
 '' Text.Whitespace  
 ':=' Operator  
 '' Text.Whitespace  
 'eval' Name.Builtin  
 '(' Punctuation  
 `eval/Int` Name  
 ')' Punctuation  
 ':' Operator  
 '\n' Text.Whitespace

`eval/sums` Name  
 '' Text.Whitespace  
 ':=' Operator  
 '' Text.Whitespace  
 'eval' Name.Builtin  
 '(' Punctuation  
 `eval/Int` 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  
           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  
           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     |
|             | 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         |
| ','        | 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
'l' Name
',' Operator
'' Text.Whitespace
'kb2' Name
'' Text.Whitespace
':=' Operator
'' Text.Whitespace
'genLoop' Name
'(' Punctuation
'rr' Name
',' Operator
'' Text.Whitespace
'll' 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
 'rr' Name
 ',' Operator
 '' Text.Whitespace

```

|           |                 |
|-----------|-----------------|
| 'll'      | 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
',' 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,kb1,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\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          |
|        | 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
 '\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
']' 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
'freeof' 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            |
| '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
'freeof' 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  
 '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  
 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
'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
',' 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_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
'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 |
| '           | 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
'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  
 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
'subindets' 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
'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
']' 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
'subindets' 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
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
'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
',' 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
'' 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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# 1.195 yup 1.6.1

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# 1.196 qs 6.14.0

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# 1.198 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
```

## 1.199 autobahn 24.4.2

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# 1.200 termcolor 1.1.0

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## 1.201 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/METADATAUT 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}r03l,HZK
m^2fXZ;wzmUnjWU]52+\Gfmy8sUP-"7DbuhoAUo9sM"T_ST
,9%=-la1?O"+l[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
o@licensedist/__init__.pyUT PBmguxPKu5Z\&#license.dist-0.2.dist-
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
o@licensedist/__init__.pyUTPuxPK
```

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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

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  |            |                     |
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This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
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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.

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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                 |
| 2.2            | 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                 |
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| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
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| 2.6.4          | 2.6.3        | 2009      | 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.202 pydantic 2.0.3

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## 1.204 moment-timezone 0.5.47

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## 1.210 paramiko 3.5.1

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## 1.215 cryptography 44.0.2

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Both were inspired by Twisted's

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

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## 1.222 subprocess32 3.5.4

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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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| 2.5.3 | 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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## 1.223 pytz 2025.2

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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 <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 |     |     |
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# 1.241 wolfy87-eventemitter 5.2.9

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# 1.242 immutability-helper 3.1.1

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## 1.243 importlib-metadata 8.7.0

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## 1.245 rpds-py 0.24.0

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## 1.246 simplejson 3.20.1

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# 1.249 jquery-ui 1.14.1

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# 1.260 pysaml 7.5.0

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# 1.261 django-strong-passwords 0.1.2

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# 1.263 bzt 1.16.34

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\* react-hotkeys v2.7.3

\* React component to listen to keydown and keyup keyboard events, defining and dispatching keyboard shortcuts.

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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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\* <https://github.com/jaywcjlove/hotkeys-js>.git

\*

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```
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# 1.295 poetry 1.8.5

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## 1.300 rcssmin 1.1.1

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# 1.305 types-pyyaml 6.0.12.20250326

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# 1.306 django 4.2.20

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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                 |
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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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## 1.312 react-intl 7.1.0

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# 1.319 react-horizontal-scrolling-menu 0.7.10

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