

OpenMath XML Translation Server Manual

Edition : auto generated by oxgentexi on 8 February 2010

OpenXM.org

1 OpenMath Functions (Version 1999)

The functions in this section is defined in the file ‘om.rr’. An environment to execute Java codes must be set to call the functions described in this section.

Author of OMproxy : Yasushi Tamura.

1.0.1 om_start

om_start()

:: Start OMproxy server to make a translation between CMO and OpenMath XML (CD's in 1999) expressions.

return Number

```
[155] load("om.rr");
1
[160] om_start();
control: wait OX
Trying to connect to the server... Done.
0
[161] om_xml(<<1,0>>+2*<<0,1>>);
<OMOBJ><OMA><OMS name="DMP" cd="poly"/>
<OMA><OMS name="PolyRing" cd="poly"/>
  <OMI>2</OMI></OMA><OMA>
  <OMS name="SDMP" cd="poly"/>
  <OMA><OMS name="Monom" cd="poly"/><OMI>1</OMI><OMI>1</OMI><OMI>0</OMI></OMA>
  <OMA><OMS name="Monom" cd="poly"/><OMI>2</OMI><OMI>0</OMI><OMI>1</OMI></OMA>
</OMA></OMA></OMOBJ>
[162] om_xml_to_cmo(@);
(1)*<<1,0>>+(2)*<<0,1>>
```

1.0.2 om_xml

om_xml(s|proc=p)

:: Translate CMO expression of *s* to a XML expression of OpenMath (CD's in 1999).

return String

p Number

s Object

- Translate CMO *s* to a XML expression of OpenMath (CD's in 1999).

```
For (I=0; I<10; I++) {
  A = 2^I;
  B = om_xml(A);
  C = om_xml_to_cmo(B);
  print(A == C);
}
```

1.0.3 om_xml_to_cmo

`om_xml_to_cmo(s | proc=p)`

:: Translate XML expression (CD's in 1999) *s* of OpenMath to a CMO.

return Object

p Number

s String

- Translate XML expression (CD's in 1999) *s* of OpenMath to a CMO.

Index

(Index is nonexistent)

(Index is nonexistent)

Short Contents

1	OpenMath Functions (Version 1999)	1
	Index	3

Table of Contents

1	OpenMath Functions (Version 1999)	1
1.0.1	om_start	1
1.0.2	om_xml	1
1.0.3	om_xml_to_cmo	2
	Index	3