

# OpenMath XML Translation Server Manual

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Edition : auto generated by oxgentexi on 13 February 2017

# 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 0X
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.

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