

# OpenMath XML Translation Server Manual

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# 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.

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## 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.

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