Trouble Shooting BioPipee

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This document notes down various installation issues that one may encounter during the use of Biopipe.

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TroubleShooting

The complexity involved in installation of bioinformatics pipelines arise from the hetereogenity of the various systems it integrates. This variety stems from disparate database schemas, program versions and operating environment. One main aim of biopipe is to make these things explicit so that it becomes clear to the user and others what these parameters are and will hopefully make for better appreciation of work processes. This particular document seeks to address some of the problems that one may face in the course of installing and using Biopipe.

Let us know!

Please let us know if you meet any difficulties in the course of using Biopipe. We also appreciate any feedback of any workarounds that you might have to do for your specific environment. It is hard to pre-empt various hardware and software quirks and so we need your help for that.

cheers, Biopipe Team

`<bioperl-pipeline@bioperl.org>`

XML::SimpleObject

This module is required for the XML loading script to work. It works with XML::Parser which is built on XML::Parser::Expat. Some people have encountered problems installing SimpleObject. This may have something to do with LibXML which is another library that comes with XML::SimpleObject. Some error one might find:

```
[shawnh@sashimi XML-SimpleObject0.51]$ perl Makefile.PL
NOTE: XML::SimpleObject requires XML::Parser. If you have XML::LibXML, you
can install XML::SimpleObject::LibXML instead.

Checking for XML::Parser ...
OK
Checking if your kit is complete...
Looks good
NOTE: XML::SimpleObject::LibXML requires XML::LibXML. If you have XML::Parser
you can install XML::SimpleObject instead.

Checking for XML::LibXML ...
WARNING from evaluation of /home/shawnh/_download/XML-SimpleObject0.51/LibXML/Mak
Can't locate XML/LibXML.pm in @INC (@INC contains: /home/shawnh/cvs_src/bioperl-
run/ /home/
shawnh/cvs_src/ensembl/modules/ /home/shawnh/cvs_src/ensembl-compara/modules/ /ho
cvs_src/bioperl-live/ /home/shawnh/cvs_src/bioperl-pipeline/ /home/shawnh/cvs_src
d
b/ /home/shawnh/cvs_src/ensembl-pipeline/modules/ /home/shawnh/download/ /usr/lib
.0/i386-linux /usr/lib/perl5/5.6.0 /usr/lib/perl5/site_perl/5.6.0/i386-
linux /usr/lib/perl5
/site_perl/5.6.0 /usr/lib/perl5/site_perl .) at (eval 20) line 8.
```

The simple solution we found was to simply remove the LibXML directory before running perl Makefile.PL As there have been some significant difficulties with this, a sample installation session is shown below. This installation was done on an Intel Box running RedHat 7.1

```
[shawnh@sashimi _download]$ tar -xvf XML-SimpleObject0.51.tar
XML-SimpleObject0.51
XML-SimpleObject0.51/Changes
XML-SimpleObject0.51/ex.pl
XML-SimpleObject0.51/LibXML
XML-SimpleObject0.51/LibXML/ex.pl
XML-SimpleObject0.51/LibXML/LibXML.pm
XML-SimpleObject0.51/LibXML/Makefile.old
XML-SimpleObject0.51/LibXML/Makefile.PL
XML-SimpleObject0.51/LibXML/test.pl
XML-SimpleObject0.51/Makefile.old
XML-SimpleObject0.51/Makefile.PL
XML-SimpleObject0.51/MANIFEST
XML-SimpleObject0.51/README
XML-SimpleObject0.51/SimpleObject.pm
XML-SimpleObject0.51/test.pl
[shawnh@sashimi _download]$ cd XML-SimpleObject0.51
[shawnh@sashimi XML-SimpleObject0.51]$ ls
Changes  ex.pl  LibXML  Makefile.old  Makefile.PL  MANIFEST  README  Sim-
pleObject.pm  test.pl
[shawnh@sashimi XML-SimpleObject0.51]$ rm -rf LibXML/
[shawnh@sashimi XML-SimpleObject0.51]$ perl Makefile.PL
NOTE: XML::SimpleObject requires XML::Parser. If you have XML::LibXML, you
can install XML::SimpleObject::LibXML instead.

Checking for XML::Parser ...
OK
Checking if your kit is complete...
Warning: the following files are missing in your kit:
        LibXML/LibXML.pm
        Please inform the author.
        Writing Makefile for XML::SimpleObject
        [shawnh@sashimi XML-SimpleObject0.51]$ make
        mkdir blib
        mkdir blib/lib
        mkdir blib/lib/XML
        mkdir blib/arch
        mkdir blib/arch/auto
        mkdir blib/arch/auto/XML
        mkdir blib/arch/auto/XML/SimpleObject
        mkdir blib/lib/auto
        mkdir blib/lib/auto/XML
        mkdir blib/lib/auto/XML/SimpleObject
        mkdir blib/man3
        scp SimpleObject.pm blib/lib/XML/SimpleObject.pm
        cp ex.pl blib/lib/XML/ex.pl
        Manifying blib/man3/XML::SimpleObject.3pm
        u[shawnh@sashimi XML-SimpleObject0.51]$ su
        Password:
        [root@sashimi XML-SimpleObject0.51]# make install
        Installing /usr/lib/perl5/site_perl/5.6.0/XML/SimpleObject.pm
        Installing /usr/lib/perl5/site_perl/5.6.0/XML/ex.pl
        Installing /usr/share/man/man3/XML::SimpleObject.3pm
        Writing /usr/lib/perl5/site_perl/5.6.0/i386-linux/auto/XML/SimpleObject/.
        Appending installation info to /usr/lib/perl5/5.6.0/i386-
linux/perllocal.pod
```