Installation Guide

Once you obtain the EzGet software from PCMDI, you can install it as described here.

You should uncompress the tar files. For example for the sun Solaris version enter:

```
uncompress ezget_examples.tar.Z
uncompress amip_geog.tar.Z
uncompress ezget1.2_solaris.tar.Z
```

Then you should extract the files from the tarred library files, examples files, geography files, and document files. For example, for the sun Solaris version enter:

```
tar -xvf ezget1.2_doc.tar
tar -xvf ezget_examples.tar
tar -xvf amip_geog.tar
tar -xvf ezget1.2_solaris.tar
```

You should now have the following files in your directory:

- Documentation (which you should print out):

```
README        (an ascii file)
ezget.ps      (black & white postscript file; 77 pp)
colorgeog.ps  (color postscript file; 1 page)
ezget.pdf     (pdf file, if you downloaded the pdf tar file)
ezget.tex     (latex file, if you downloaded the tex tar file)
```

- Sample programs:

```
areamean.f
extract.f
extract_shrt.f
getregn.f
maxmin.f
meandiff.f
regrding.f
rmscalc.f
smmaxmin.f
```

- Input data (DRS format) for sample programs:

```
nasa-amip_t.dat
nasa-amip_t.dic
sftbyrgn_gla.dat
sftbyrgn_gla.dic
```

- Geography files for AMIP models (sftbyregn in DRS format):

```
sftbyrgn_bmr.dat
sftbyrgn_bmr.dic
sftbyrgn_ccc.dat
sftbyrgn_ccc.dic
sftbyrgn_cnr.dat
...
...
sftbyrgn_ukm.dat
sftbyrgn_ukm.dic
```

```
sftbyrgn_yon.dat
sftbyrgn_yon.dic
```

- 3 fortran libraries:

```
libcdms.a
libdrs.a
libezget.a
```

If you will be reading netCDF files, you will need to acquire the netCDF library.

Once you have placed the libraries where you want them, you may have to execute "ranlib" on some platforms:

```
ranlib libcdms

ranlib libdrs

ranlib libezget

ranlib libnetcdf
```

The surface air temperature data set and a detailed geography mask in DRS format are included as sample data for use by the sample fortran programs in the "examples" tar file. All the examples (documented in the ezget.ps file) should run on your platform, except rmscalc.f, which requires input files from 30 different models. Before compiling and running these sample applications, you will need to edit the files, specifying the correct paths to the input data (check all the calls to subroutine defvar).

For various platforms, typical lines for compiling and linking to the libraries are given here (but you will need to change the path to the libraries):

Sun/SunOS:

```
f77 extract.f -L$PCMDI/Sunos/lib -lezget -lcdms -ldrs -lnetcdf -o extract
```

Sun/Solaris:

```
f77 extract.f -L$PCMDI/Solaris/lib -lezget -lcdms -ldrs -lnetcdf -o extract
```

IBM RS6000/AIX:

```
xlf extract.f  -L$PCMDI/Ibm/lib -lezget -lcdms -ldrs -lnetcdf -o extract
```

HP/HP−UX:

```
fort77 +U77 extract.f -L$PCMDI/Hp/lib -lezget -lcdms -ldrs -lm -lnetcdf -o extract
```

SGI:

```
f77 extract.f -L$PCMDI/Sgi/lib -lezget -lcdms -ldrs -lnetcdf -o extract
```