

# InterComm-1.6

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### Warning

InterComm-1.6 is deprecated. Try InterComm-2.0

## InterComm-1.6

### InterComm-1.6 prerequisites

You must compile [PVM](#) before building InterComm-1.6. [Click here for instructions on building PVM.](#)

### InterComm-1.6

1. Set the following three environment variables. You will need these when using PVM in the future, so you may want to add this to your `.bashrc`, `.cshrc`, etc.

```
export PVM_ROOT=$INSTALL_DIR/pvm3
export PVM_ARCH=XXX*
export PVM_BIN=$PVM_ROOT/bin
```

- To find the appropriate `PVM_ARCH` for your system, see what is in `$PVM_ROOT/bin`

```
ls $PVM_ROOT/bin
```

For an AIX system like [Bluefire](#), set `PVM_ARCH=AIX56K`.

2. [Download](#) and extract source:

```
cd $INSTALL_DIR/src
wget http://www.cs.umd.edu/projects/hpsl/chaos/ResearchAreas/ic/dist/InterComm-1.6.tar.gz
tar -zxvf InterComm-1.6.tar.gz
```

3. Configure, compile & install InterComm-1.6

```
cd $INSTALL_DIR/src/InterComm-1.6
./configure --prefix=$INSTALL_DIR --with-ppp=$INSTALL_DIR/P++
make
make install
```

4. You are now ready to install the next prerequisite, [Overture](#).

### Developer website:

<http://www.cs.umd.edu/projects/hpsl/chaos/ResearchAreas/ic/>

### Troubleshooting

- If the `configure` script is mysteriously failing, examine `config.log` for more information.

- If configure script in step 3 has trouble finding A+.h, make sure that you manually moved the A+ & P++ libraries to the proper place, as in step 5 of [A++ and P++](#).
- When running the configure script, you get the error:

```
./configure: line 4334: syntax error near unexpected token `f90_list'
./configure: line 4334: ` AC_PROG_F90(f90_list)'
```

Solution: Comment out the line containing AC\_PROG\_F90

- When running the configure script, you get the error:

```
./configure: line 4482: syntax error near unexpected token `mpicxx_list,'
./configure: line 4482: ` AC_PROG_MPICXX(mpicxx_list, $enable_tests)'
```

Solution: Comment out any lines containing "AC\_PROG\_MPICXX"

- When building InterComm-1.6, you may get an error like:

```
catastrophic error:
#error directive: "SEEK_SET is #defined but must not be for the C++ binding of MPI"
error "SEEK_SET is #defined but must not be for the C++ binding of MPI"
```

Solution: add -DMPICH\_IGNORE\_CXX\_SEEK and -DMPICH\_SKIP\_MPICXX to the CPPFLAGS environment variable.

- When building InterComm-1.6, you may get an error like:

```
catastrophic error: could not open source file "pvm3.h"
```

Solution: Edit InterComm-1.6/src/Makefile, grep for -I/path/to/P++/include, and add -I/path/to/pvm3/include.

- I get an error about sys.h:

```
IC_support.cc:34:23: fatal error: linux/sys.h: No such file or directory
```

Solution: First, find where your sys.h is located

```
locate sys.h | grep linux
```

for example, mine is here: /usr/src/kernels/2.6.18-194.el5-x86\_64/include. Then append an include flag to DEFAULT\_INCLUDES in \$INSTALL\_DIR/src/InterComm-1.6/src/p++/Makefile, like so:

```
DEFAULT_INCLUDES = -I. -I$(srcdir) -I$(top_builddir)/src -I$(top_builddir)/src -I$(top_builddir)/src/ext
/mbp -I/usr/src/kernels/2.6.18-194.3.1.el5-x86_64/include
```

now try gmake again.