

Running with multiple versions of DiFX

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Directory Heirarchy

```
/
├── ~difx/
│   ├── runmpifxcorr.DIFX-1.5.4
│   └── runmpifxcorr.DIFX-2.0.0
├── /home/swc/
│   ├── DiFX-1.5.4/
│   │   ├── setup_difx
│   │   └── bin/, include/, lib/, src/ ...
│   ├── DiFX-1.5.4-64/
│   │   └── bin/, include/, lib/, src/ ...
│   ├── DiFX-1.5.4-SDK9/
│   │   └── bin/, include/, lib/, src/ ...
│   ├── DiFX-2.0.0/
│   │   ├── setup_difx
│   │   └── bin/, include/, lib/, src/ ...
│   ├── DiFX-2.0.0-64/
│   │   └── bin/, include/, lib/, src/ ...
│   └── DiFX-2.0.0-SDK9/
│       └── bin/, include/, lib/, src/ ...
```

Starting DiFX

Command line (simplified)

```
mpirun -np 12 --bynode --hostfile bf100f.machines --mca  
yield_when_idle 1 runmpifxcorr-1.5.4 bf100f.input
```

```
runmpifxcorr.DIFX-1.5.4
```

```
#!/bin/bash  
./home/swc/DiFX-1.5.4/setup_difx  
mpifxcorr $@
```

/home/swc/DiFX-1.5.4/setup_difx

```
#!/bin/bash

export DIFX_PROMPT_EXTRA=""
if [[ 'uname --hardware-platform' = "x86_64" ]]; then
    export DIFXBITS=64
    export IPPROOT=/home/swc/difx/intel/ipp/6.1.2.051/em64t
    export DIFX_PREFIX=/home/swc/DiFX-1.5.4-64
    export DIFX_PROMPT_EXTRA="${DIFX_PROMPT_EXTRA} 64"
else
    export DIFXBITS=32
    export IPPROOT=/home/swc/difx/intel/ipp/6.1.2.051/ia32
    if [[ x'pkg-config --modversion streamstor' < "x9.0" ]]; then
        export DIFX_PREFIX=/home/swc/DiFX-1.5.4
    else
        export DIFX_PREFIX=/home/swc/DiFX-1.5.4-SDK9
        export DIFX_PROMPT_EXTRA="${DIFX_PROMPT_EXTRA} SDK9"
    fi
fi
export OPENMPI_PREFIX=${DIFX_PREFIX}
export MPICXX=${OPENMPI_PREFIX}/bin/mpicxx
export PKG_CONFIG_PATH=${DIFX_PREFIX}/lib/pkgconfig:${PKG_CONFIG_PATH}
.
.
.
```