

# Hyak FDTD Solutions

## Trial License Proxy Setup

The trial license of FDTD Solutions requires access to the Internet. The following steps set it up so this is possible. You must first set up X11 forwarding on your workstation before proceeding.

```
login$ srun -p build --time=2:00:00 --mem=100G --pty /bin/bash
node$ module load ftdt_8.12
node$ ftdt-solutions
```

A dialog box will be displayed stating that validating the trial license has failed and ask if you'd like to connect through a proxy. Click the Yes button. Another dialog box will appear. Click the Manually Configure Proxy Settings radio button. Enter globus1.hyak.local into the Hostname field and 3128 into the Port field. Click the Ok button. FDTD Solutions will start.

## Sample Parallel Job Script

You will need to change parameters appropriately your job.

Use the command "module avail" to find the version number for below commands.

See end of below link for a sample slurm script.

[Mox\\_scheduler](#)

```
## Some applications, particularly FORTRAN applications require
## a larger than usual data stack size. Uncomment if your
## application is exiting unexpectedly.
#ulimit -s unlimited

## Disable regcache
export MX_RCACHE=0
```

```
### Debugging information
### Include your job logs which contain output from the below commands
### in any job-related help requests.

echo "SHARED LIBRARY CHECK"
ldd `which ftdt-engine-mpi-lcl`
echo "ENVIRONMENT VARIABLES"
set
echo "*****"
### End Debugging information
```

```
ulimit -s unlimited

module load icc_15.0.3-mpi_5.0.3
module load ftdt_8.12
```

```
###
# EDIT FOR YOUR JOB
#
mpirun -n 32 ftdt-engine-mpi-lcl inputfile.fsp
```