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# CMSSW Fal l back

The patch attached to this page allows a CMSSW run to fallback from the normal TFC access to a secondary protocol, such as the global xrootd redirector.

This is only tested on CMSSW\_3\_8\_0 or later.

## CMSSW Pat ches

Before you apply any patches, make sure you have your CMS environment set up correctly. From the CMSSW\_3\_8\_x directory, do:

```
cmsenv
export CVSROOT=:pserver:anonymous@cmscvs.cern.ch:/cvs_server/repositories/CMSSW
```

Now, apply patches and build the new code:

```
addpkg IOPool/Input
addpkg IOPool/TFileAdaptor
addpkg FWCore/Sources
addpkg FWCore/Services
addpkg FWCore/Catalog
pushd src/FWCore/Catalog
/usr/bin/curl -k https://twiki.cern.ch/twiki/pub/Main/CmsIOFallback/fwcore_catalog_fallback.patch
popd
pushd src/FWCore/Services
/usr/bin/curl -k https://twiki.cern.ch/twiki/pub/Main/CmsIOFallback/fwcore_services_fallback.patch
popd
pushd src/IOPool/Input
/usr/bin/curl -k https://twiki.cern.ch/twiki/pub/Main/CmsIOFallback/iopool_input_fallback.patch
popd
scram b -j4 USER_CXXFLAGS="-g"
```

It might take 3-5 minutes depending on the speed of your computer.

For CMSSW\_3\_9\_0\_pre1:

```
addpkg IOPool/Input
addpkg IOPool/TFileAdaptor
addpkg FWCore/Sources
addpkg FWCore/Services
addpkg FWCore/Catalog
pushd src/FWCore/Catalog
cvs up -r brianfallback
popd
pushd src/FWCore/Services
cvs up -r brianfallback
popd
pushd src/IOPool/Input
cvs up -r brianfallback
popd
scram b -j4 USER_CXXFLAGS="-g"
```

## Add t he xrootd service to t he CMSSW r un

Assuming that your site-local-config.xml event-data stanza looks like this:

```
<event-data>
  <catalog url="trivialcatalog_file://opt/osg/app/cmssoft/cms/SITECONF/local/PhEDEx/storage.x
</event-data>
```

change it to the following:

```
<event-data>
  <catalog url="trivialcatalog_file://opt/osg/app/cmssoft/cms/SITECONF/local/PhEDEx/storage.x
  <catalog url="trivialcatalog_file://opt/osg/app/cmssoft/cms/SITECONF/local/PhEDEx/storage.x
</event-data>
```

where the xrootd protocol points to the xrootd redirector of your choice. If you want to use the global redirector, you would add the following line to your storage.xml file:

```
<lfn-to-pfn protocol="xrootd" destination-match=".*" path-match="/+store/(.*)" result="root://x
```

You can run CMSSW as normal; whenever CMSSW runs into a file it can't open, it will start using the CMS Data Access Testbed.

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