



OPAL DP Status Update

Matthias Schröder

CERNLIB and OPAL

- **Fixed buffer overflows in FATMEN and HEPDP**
 - Results from `utsname` (`uname`) where not checked
 - Resulted in crashes under macOS
- **Could use use fixed fatmen to extract OPAL catalog data**
 - Dumped its entries into text files
 - Mostly simulated data
 - Could be important for resurrecting files “lost” in tape migration
- **! Reminded me that we don't have a real catalog of all data in EOS**
 - Filedbs can be used for checking the completeness of real data

Filepbs

- **Tested using a small local copy of the filepbs**
- **Useful for testing direct-access tools (dadreader, dadmaker) in CI pipelines**
 - **Test creating dadlist from eventlist**
 - **Test creating eventlist from dadlist**
 - **Test using the dadlist to access data in test sample**

Compilers

- **Tested building with gcc 15**
 - **Compilers much more picky**
 - **Had to adapt code**
 - **Or specify that we want to use C11 standard**
- **Checked availability of ld-classic in next macOS version**
 - **It is deprecated**
 - **Currently we still need the classic linker to build on macOS**
 - **Will future versions of gcc be compatible with the new linker?**

Misc

- **New Data Policy**
 - Discussion progressing well
- **Plans**
 - Use CERNLIB from cvmfs
 - Use cernlib ostag csript and structure for OPAL paths



home.cern