



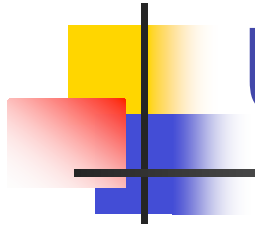
pNFS Update

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Status

- Draft is currently at 62 pages
- Many updates since Paris IETF
- Please read through and give feedback



Update highlights

- Refined defs of layouts and layout segments
 - Includes defs for overlapping/conflicting layouts
- Updated crash recovery considerations
 - Both in general and for NFSv4 Files
 - For clients, metadata server, storage devs
- Updated operation sequencing discussion
- File-based device multipathing for failures
 - Assumes equivalent devices



Open issues/To do

- OPEN principals & stateids for I/O
 - Much discussion, won't solve it here/now
- Callback sequencing via sessions
 - Discussion on adding support in sessions
- More text on error handling required
- Flags in layoutrecall to specify client behavior
 - E.g., write through MDS, re-get layout...
- References to block/obj layout structures



Going forward

- NFSv4.1 discussion (later)
- Prototyping and interoperability
 - Should aim for Connectathon demos