

Software for PED studies Information and News

FCC General Software Meeting CERN, 2/R-030 and zoom

Sep 25, 2023 G Ganis, CERN-EP

Recent activities



- By-weekly meeting on full simulation and reconstruction
 - o <u>28 Aug 2023</u>
 - ARC integration in CLD
 - Full sim HNL studies with CLD
- ECFA workshops
 - Generators: Technical benchmarks, 18 September, Zoom

EOS situation: two large projects

(FCC) hh ee he

• /eos/experiment/fcc

(500 TB | 5 M files; 96.5% used)

- Roughly half used by FCC hh files used for CDR
 - Includes /eos/experiment/fcc/prod, the FCC@iLCDirac Storage Element

-> Quota Node: /eos/experiment/fcc/										
group	used bytes	logi bytes	used files	aval bytes	aval logib	aval files	filled[%]	vol-status	ino-status	
project	965.36 TB	482.68 TB	4.57 M	1.00 PB	500.00 TB	5.00 M	96.54 %	warning	warning	

- /eos/experiment/fcc/ee/analyses_storage (200TB | 0% used)
 - Access controlled by egroups managed by physics groups conveners
 - fcc-eos-write-ee-analysis-{bsm,ew-qcd,flavour,higgs-top}

-> Quota Node: /eos/experiment/fcc/ee/analyses_storage/												
group	used bytes	logi bytes	used files	aval	bytes	aval	logib	aval	files	filled[%]	vol-status	ino-status
project	0 B	0 B	2	280	.00 TB	140.	00 TB		0	0.00 %	ok	ignored
	-											

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EOS space evolution



- Archiving (CTA) can be used to free space in the main project
 - Candidates for archival
 - All data used for CDR but not usable any longer
 - 102T /eos/experiment/fcc/hh/generation/DelphesEvents
 - 30T /eos/experiment/fcc/hh/generation/DelphesStandalone
 - 132T /eos/experiment/fcc/hh/generation/
 - 136T /eos/experiment/fcc/hh/simulation/samples
 - 136T /eos/experiment/fcc/hh/simulation/
 - Working with IT on highlighted areas
 - Will allow to free ~160 TB
 - Fragile operation ...
- Ask for more space
 - There is probably room for that, although not for free
 - This a place where country resources could play a role
 - Use first studies with full simulation to improve estimation on needs

7th FCC Physics Workshop



- Location: LAPP, Annecy-le-Vieux
- Developing Indico: <u>https://indico.cern.ch/event/1307378/</u>
- Definition of Scientific Program started
- Plan to have several software sessions, plenary and parallel
- Goal is to address all missing parts relevant for the FSR

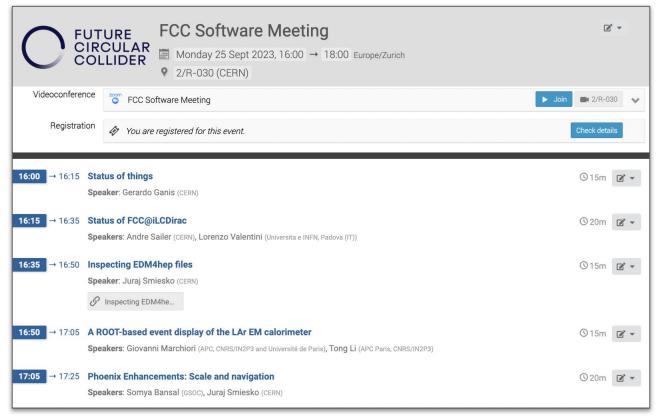
Next meeting



- October 23rd (TBC)
 - Developing agenda: <u>https://indico.cern.ch/event/1329582/</u>
- Proposals for contributions welcome

This meeting





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