Long Term Data Preservation in ALEPH

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The ingredients

- Bit Preservation and Integrity
- Data Access including Metadata
- New Data Production (excluding new Metadata)
- Installation Environment Validation (Almost) lost
- Automatic Job Submission
- Data Discovery

Bit Integrity Checks

Found 200 Mbyte lost during a porting from one medium to another (unused format, so not bad...)

Due to wrong tape assignment it got rewritten

User Tool for Integrity Check should be devised

On Data Access: From Local

My Mac a File Composizione Scatto Finestra Aiuto ○ 😭 😭 🖒 😢 🕙 🔻 🜒 96% 🖅 🧮 Sat 12:11 AM Marcello Maggi 🔾 🔡 X ALEPH-XDALI 17 Nov 2012 version F2 X11/XUIT X DALIhelp display selected event number input Color | ALPHA ALPHA Top Level Vplot data func. calc. proj. Pick Ouit ⇒ Get Read/Search Event Back to last. Pch=85.7 Efl=124. Ewi=57.1 Eha=35.1 dali1 EV1=.827 EV2=.409 EV3=.229 ThT=1.73 Run=40334 Evt=1164 page EV\0 ALEPH 95-11-03 20:12 Detb= E1FFFF 13.1Gev EC 16.3Gev HC Read next event.
READ NEXT EVENT and DISPLAY it. Set event number = x Set run number = X
Set run number = X
Read selected event.
READ SELECTED EVENT and DISPLAY it. Rewind file and redraw all Change input file Read event backward. Read event backward and display it. Read last event on EDIR Read last event and display it. Read first event = rewind
Read first event and display it. List EDIR selection classes No class is selected. Class x is selected. (e.g.: SC=3,12,20: The classes 3,12,20 are selected) Add class x to class list (e.g.: AC=5,19: The classes 5,19 are added to the class list) set selected classes to zero If more than one class is selected: set SA if all classes are valid set SO if at least one class is Set AND Set OR List EDIR file List run/event # of 6 last events Read data Base, initialize geometry with current run number. DRAW whole window AGAIN 600cm |-500cm |X hist.of BA.+E.C 500cm os(0)*Y-sin(0)*X FOR BEGINNERS: How to continue ->
Explanation of header line ->
List, enable, disable BOS-banks-> Clear window for next event -> Copy events to ALWS with ALPHA -> ->

To Global

voms admin for VO: vo.aleph.cern.ch

Current user: CN=maggim,CN=411516,CN=Marcello Maggi

Home Browse VO Configuration Info

Other VOs on this server

Configuration information:

VOMS-Admin URL for this vo:

https://voms-admin.cern.ch:8443/voms/vo.aleph.cern.ch

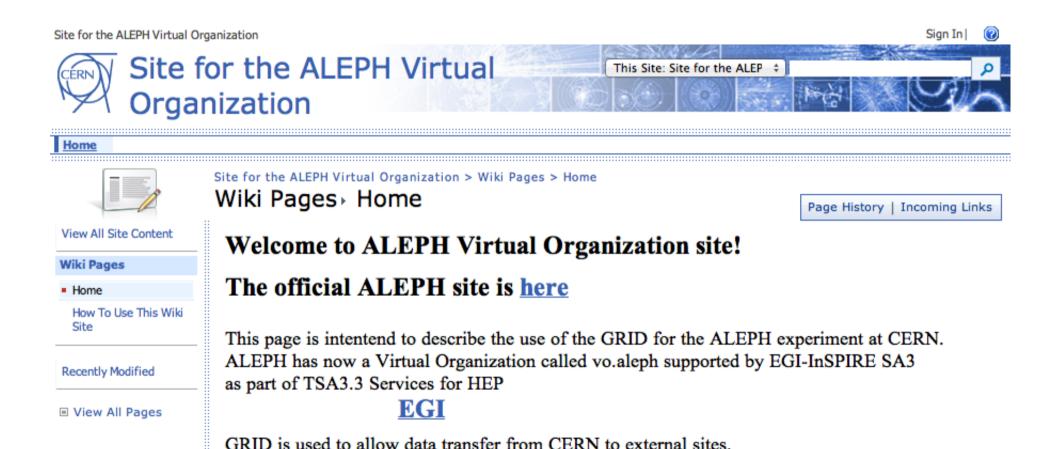
VOMSES string for this vo:

"vo.aleph.cern.ch" "voms.cern.ch" "15013" "/DC=ch/DC=cern/OU=computers/CN=voms.cern.ch" "vo.aleph.cern.ch"

Example Mkgridmap configuration for this vo:

group vomss://voms-admin.cern.ch:8443/voms/vo.aleph.cern.ch .vo.aleph.cern.ch

Using New Infrastructures



New Approaches

Standards in data formats allows longer term data access

New Data Production, because of new models, and so new Simulation requires still experiment full chain with the Wirtualization

Creation of an ALEPH VDI file

Conclusions

- ALEPH Data are available and usable
- Real question is how to make access through today and future e-infrastructures
- Number of users capable to run ALEPH analysis decreases in time... (getting old)

Define and Adopt standards for truly Open Access to the data?