

ALIEN

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21 de Marzo 2007

Tutorial ALIEN 05-02-2007

ALIEN v2-12

- client
- gshell
- xroot
- Recopilar al usar diferente version de gcc (3.2.3):
 - cd \$ALIEN/api/src
 - ./recompile.gapi
 - cd \$ALIEN/api/lib
 - cp libgapiUI.so.2 libgapiUI.so.3
 - cp libgapiUI.so.2.0.2 libgapiUI.so.3.0.0

ROOT, GEANT, ALIROOT

- ROOT v5-13-06
- GEANT v1-6,
- ALIROOT v4-04-Release

```
export ROOTSYS=/home/isabel/Aliroot-Release/root
export ALICE=/home/isabel/Aliroot-Release
export ALICE_ROOT="$ALICE/AlRoot"
export ALICE_TARGET=linux
export PLATFORM=linux
export ALIEN=/home/isabel/Aliroot-Release/alien
export GSHELL_ROOT="$ALIEN/api"
export GLOBUS_LOCATION="$ALIEN/globus"
export PATH="$ROOTSYS/bin": "$ALICE_ROOT/bin/tgt_$ALICE_TARGET":
"$ALIEN/bin": "$GSHELL_ROOT/bin": "$GLOBUS_LOCATION/bin": "$PATH"
export LD_LIBRARY_PATH="$ROOTSYS/lib": "$ALICE_ROOT/lib/tgt_$ALICE_TARGET":
"$ALICE/geant3/lib/tgt_$ALICE_TARGET": "$ALIEN/lib": "$GSHELL_ROOT/lib":
"$GLOBUS_LOCATION/lib": "$ALIEN/api/lib": "$LD_LIBRARY_PATH"
```

ALIENROOT

- Obtenir token
- Cambiar /tmp/gclient_env_\$UID:
pcapiserv01.cern.ch pcapiserv04.cern.ch
pcapiserv02.cern.ch pcapiserv05.cern.ch
- Executable alienroot

```
#!/bin/bash
export PATH=$ROOTSYS/bin:$PATH
export LD_LIBRARY_PATH=$ROOTSYS/lib:
$LD_LIBRARY_PATH:$ALIEN/api/lib

if [ -e /tmp/gclient_env_$UID ]; then
source /tmp/gclient_env_$UID;
root.exe $*
fi
```

```
root [0] TGrid::Connect("alien://");
```

Análisis local

- aliensh

- cp /alice/cern.ch/user/p/pchrist/Tutorial/BATCH file:/home/isabel/AliEn/Batch
 - ESD.par, ANALYSIS.par (\$ALICE_ROOT/Makefile namefile.par)
 - AliAnalysisTaskPt.cxx, AliAnalysisTaskPt.h
 - CreateXML.C, demoBatch.C, runProcess.C
- Crear lista de archivos a analizar

- Run100.Merged.ESD.tag.root

```
find -l 10 -x tag.root /alice/cern.ch/user/a/aliprod/prod2006_2
output_pp/100/*. tag > AliEn/Batch/tag_pp.xml
CreateXML.C ->global.xml->AliESDs.root
```

- AliESDs.root

```
find -l 10 -x ALIESDs./alice/cern.ch/user/a/aliprod/prod2006_2
output_pp/100/* AliESDs.root > AliEn/Batch/tag_pp.xml
```

- alienroot runProcess.C

Análisis en ALIEN

- aliensh

- cp /alice/cern.ch/user/p/pchrist/Tutorial/BATCH/analysis.jdl file:/home/isabel/AliEn/Batch

```
InputDataListFormat="merge:/alice/cern.ch/user/i/idomingu/  
Tutorial/BATCH/global.xml";
```

```
InputDataCollection="LF:/alice/cern.ch/user/i/idomingu/  
Tutorial/BATCH/global.xml,nodownload";
```

```
InputFile= {  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/AliAnalysisTaskPt.cxx",  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/AliAnalysisTaskPt.h",  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/ESD.par",  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/ANALYSIS.par",  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/demoBatch.C",  
"LF:/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/runProcess.C"};
```

Análisis en ALIEN

```
OutputArchive={"log_archive:stdout,stderr@Alice::CERN::se",  
  "root_archive.zip:*.root@Alice::CERN::se"};  
OutputDir="/alice/cern.ch/user/i/idomingu/Tutorial/BATCH/  
output/#alien_counter#";
```

```
Email="isabel.dominguez.jimenez@cern.ch";
```

● aliensh

- `cp file:/home/isabel/AliEn/Batch /alice/cern.ch/user/i/idomingu/Tutorial/`
- `cp file:/home/isabel/AliEn/Batch/batch_tut.sh /alice/cern.ch/user/i/idomingu/bin/`
- `submite analysis.jdl`
- `ps`

idomingu	2490846	__	S	batch_tut.sh
idomingu	-2490847	__	ST 00:00:49	batch_tut.sh
idomingu	-2490848	__	ST 00:04:26	batch_tut.sh

JETAN

- jet.xml->/alice/cern.ch/user/a/aliprod/prod2006_2/output_jets/
- update JETAN-4-04-Release ->HEAD
- JETAN.par
- alienroot runProcessJet.C

ESD vacios!!!!!!!!!!!!!!

No hay producción de jets en ALIEN

KANBALAM

- ROOT v5-14-00, GEANT v1-6,
- ALIROOT v4-04-Release, ALIEN v2-12

```
export ROOTSYS=/global/home/inv/idmgz/Aliroot-Release/root
export ALICE=/global/home/inv/idmgz/Aliroot-Release
export ALICE_ROOT="$ALICE/AlRoot"
export ALICE_TARGET=linuxx8664gcc
export PLATFORM=linuxx8664gcc
export ALIEN=/global/home/inv/idmgz/Aliroot-Release/alien
export GSHELL_ROOT="$ALIEN/api"
export GLOBUS_LOCATION="$ALIEN/globus"
export PATH="$ROOTSYS/bin": "$ALICE_ROOT/bin/tgt_$ALICE_TARGET":
"$ALIEN/bin": "$GSHELL_ROOT/bin": "$GLOBUS_LOCATION/bin": "$PATH"
export LD_LIBRARY_PATH="$ROOTSYS/lib": "$ALICE_ROOT/lib/tgt_$ALICE_TARGET"
"$ALICE/geant3/lib/tgt_$ALICE_TARGET": "$ALIEN/lib": "$GSHELL_ROOT/lib":
"$GLOBUS_LOCATION/lib": "$ALIEN/api/lib": "$LD_LIBRARY_PATH"
```