## **Linux Upgrade: Status and Plans**











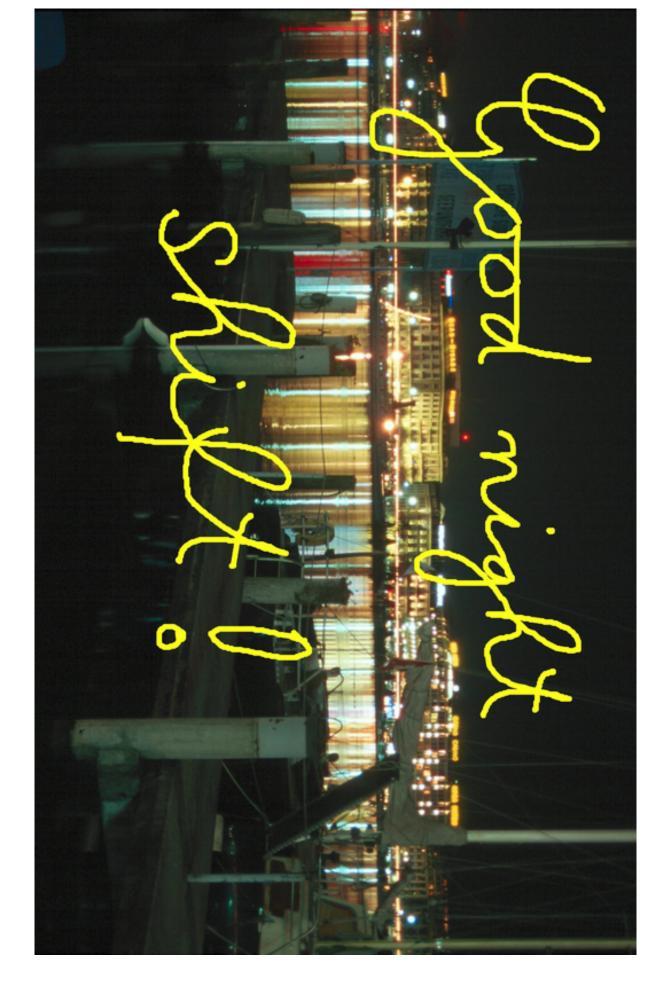
7.2

K. Rabbertz, EP Division, CERN

# A short History of . . . OPAL Offline Computing

OPAL Apollo   OPAL Apollo Cluster		SnOPAL OPAL HP Cluster	VXCERN   CERN OpenVMS Cluster	SHIFT CERN/OPAL Batch Mode Cluster	LXBATCH   CERN Batch Mode Linux Cluster	HPPLUS   CERN Public Login HP Cluster	LXPLUS   CERN Public Login Linux Cluster	HPOPAL OPAL HP Cluster	LXOPAL OPAL Linux Cluster	Name Computer System
shut down 06/1999 shut down 06/1996	shut down 12/1999	shut down 12/1999	shut down 12/2000	ster to be shut down 07/2002	er in use	to be shut down 07/2002	ter in use	in use	in use	Current Status

In future, CERN support for Linux and Sun only!

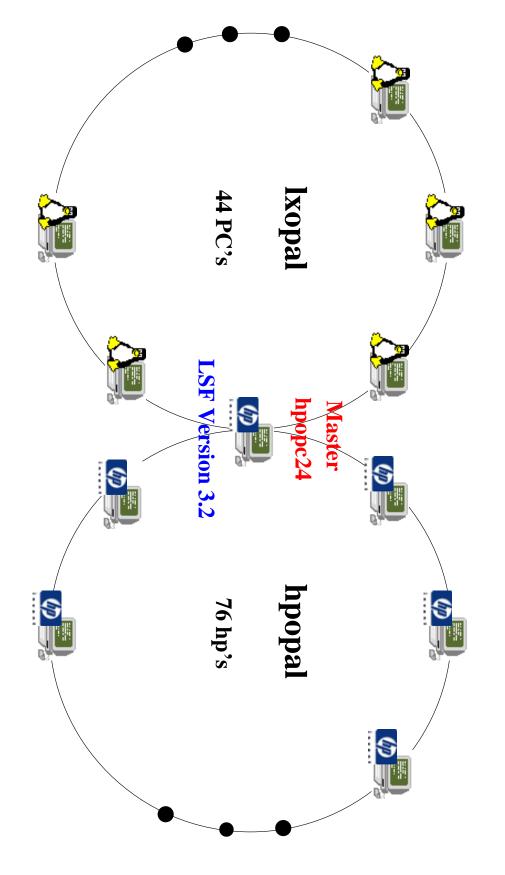




# Sunrise of CERN certified RedHat Linux, Version 7.2.1

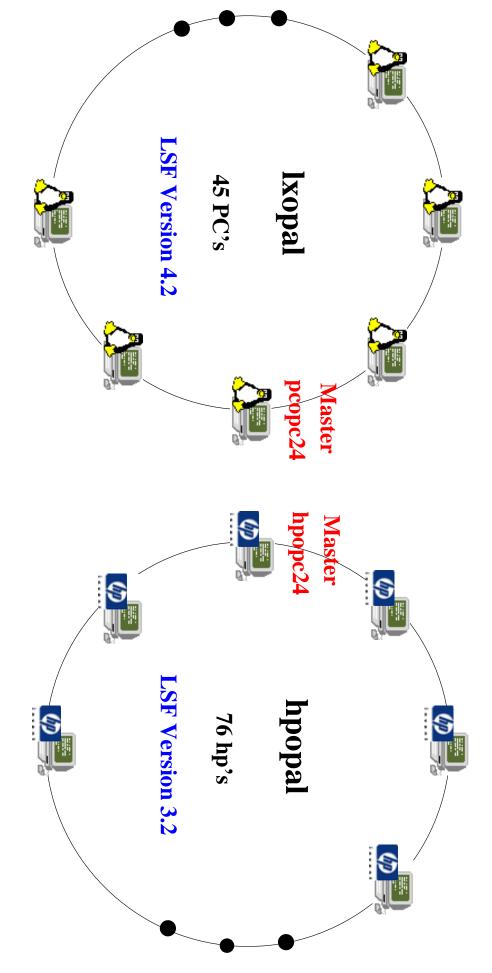
```
20.06.2002
                                                                                                                                 19.06.2002
                                                                                                                                                                                                                                                                                               05.06.2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29.04.2002
                                                                                                                                                                                                               19.06.2002
                                                                                                                                                                                                                                                                                                                                                                            21.05.2002
                                                                                                                                                                                                                                                                                                                                                                                                                        13.05.2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19.04.2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Start of test installation on pcopc24 using CD images;
                                          nfs installation completed on pcopc24;
                                                                                                                                                                                                          rdist installed via rpm's;
                                                                                                                                                                                                                                                                                         Only rdist, nfs and LSF still not working;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Several install iterations necessary.
Only LSF is missing right now . . .
                                                                                    Accessible via lxplus7.
                                                                                                                              Test batch cluster with CERN RH 7.2.1 and LSF 4.2 installed;
                                                                                                                                                              Command protocol has to be changed to ssh (1) due to firewall.
                                                                                                                                                                                                                                                                                                                                                                          Net install of version 7.2.1 on pcopc24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Release of CERN RH 7.2.1 \beta 2.
                                                                                                                                                                                                                                                                                                                                   OPAL install scripts fail \Rightarrow some rewriting necessary.
                                                                                                                                                                                                                                                                                                                                                                                                                       Release of CERN certified RH 7.2.1
                                                                                                                                                                                                                                                CERN stopped BIS installation support for rdist.
```

## Current hp/lxopal Cluster Setup

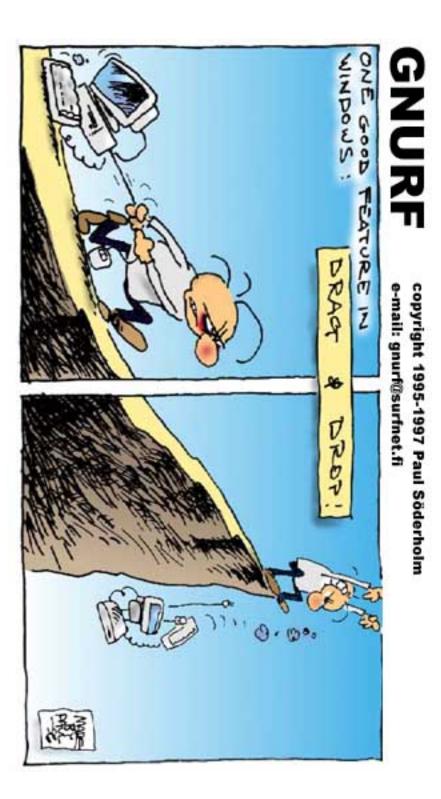


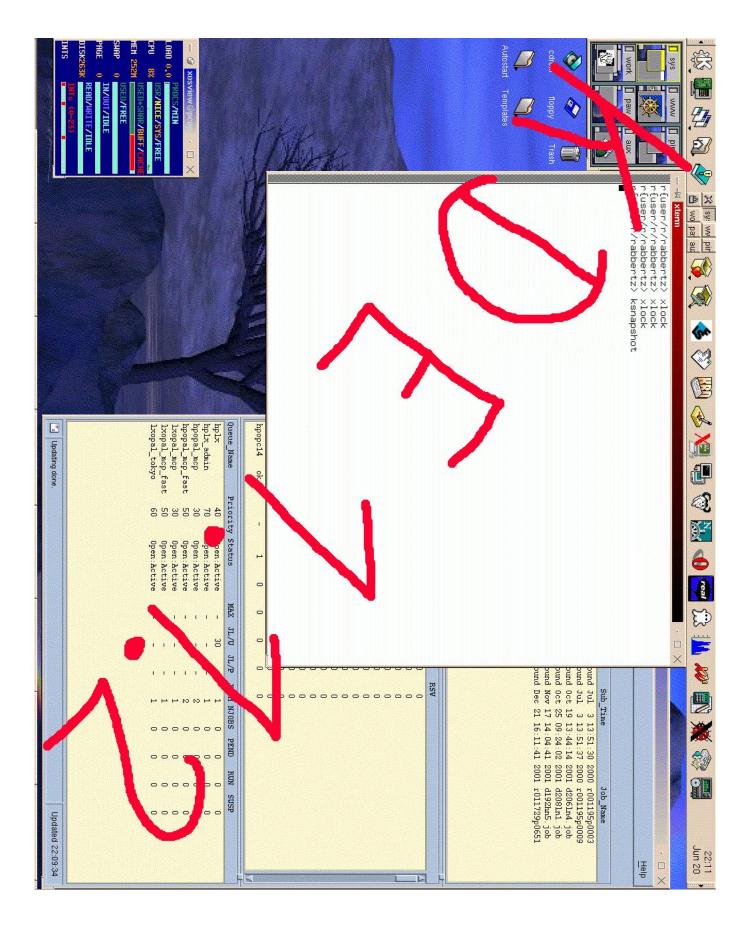
Unfortunately, LSF 3.2 and LSF 4.2 are incompatible!

### **Future Cluster Setup**

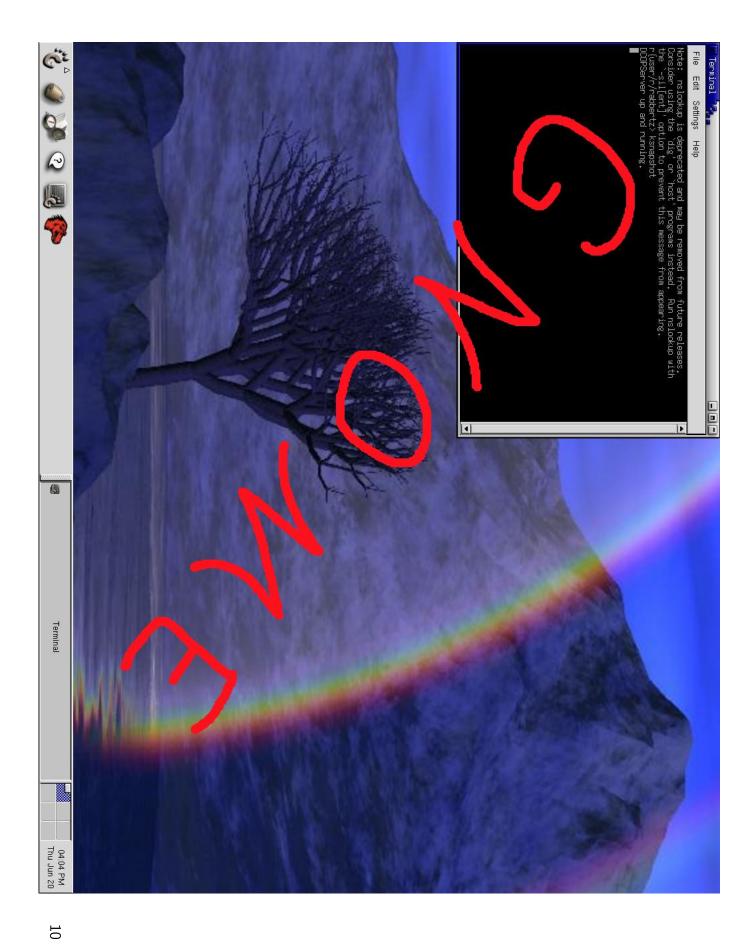


- Next steps: Check completed installation procedure (next week)
- Add special master configuration for pcopc24 only (soon)
- Migrate complete cluster (not to soon, ICHEP!)









## Documentation/Location

```
- crh721_cd1.iso and crh721_cd2.iso for installation via CD
                                                                                                                                         - bootnet.img for net install via nsf
                                                                    CERN RH72 CD images (700 MB!): /afs/cern.ch/project/linux/redhat/cern/7.2.1/iso
                                                                                                                                                                                                          CERN RH72 floppy images: /afs/cern.ch/project/linux/redhat/cern/7.2.1/i386/images
                                                                                                                                                                                                                                                                                CERN Linux Homepage: http://cern.ch/linux
```

| Ixopal Page: http://opal.web.cern.ch/opal/computing/lxopal; not yet updated OPAL Primer

A new version to replace the vintage version from July 1998 is in preparation → George Lafferty

First measure taken for the computing chapter: Throw away about 95% of it!

There's more to follow . . .

#### Outlook

that my new address will not be Under the bridge no. 19 . . . End of this month I will leave Geneva for Karlsruhe and since yesterday I know

But instead of saying

Bye Bye

it will be

#### See Yal

For Karlsruhe I will be involved in CMS/CDF and as secondary CERN experiment I have put . . . OPAL!

### Good luck

to Simone who will take over the responsibility for the hp/lxopal cluster!











BUDGET BY 10%.

MY EXECUTIVE



