

Cocotime Allocations for 2001

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Current status

- Basically completed
 - Call for requests end June 2000
 - Lightweight procedure for experiments with small expected requirements
 - Final decisions, open meeting 24 November 2000
- Still being considered (more refereeing activity): Testbed
- Budget shortfalls not resolved yet

Trends

- Risc decommissioning → 'Linux + 1'
- IDE disk servers
- Convergence across services and experiments
 - flexible
 - easy to maintain
- Shared facilities
 - scheduled (EFF/Testbed) or random (Ixbatch)
 - Fraction of dedicated investments decreasing
- Managed storage (Castor) replacing tapes

Public services

- lxbatch: upgrade by 30%
 - absorb load from closing rsbatch
- lxplus: doubling size
 - rsplus to close for physics, hpplus and dxplus to close for non-LEP
- sundev ('+1' component): see separate discussion
- csf: to close during 2001; pcsf: to migrate to Linux, slight increase with capacity requests

“Testbed”

- Dynamically allocatable, partitionable resource
- Functions:
 - EFF replacement/successor
 - ramp-up for LHC Tier 0/Tier 1 prototype
 - EU data grid testbed
- End 2000: 120 nodes; end 2001: 300 nodes (30 reserved for grid), 20 tape drives, robotics (1000 slots), 10 TB disk space
- Being reviewed, funding still unclear

Dedicated services

- Linux interactive, Linux batch, disks (PC servers with mirrored EIDE disks)
- Per group of experiments:

LHC	364 k
LEP	178 k
FT, ions	300 k
- Per function:

Linux interactive	44 k
Linux batch	110 k
Disks (40 k/TB)	688 k

Data mgmt, tape services

- AFS: +750 GB project space, +180 GB user space
- HPSS to be used for user tapes only, Castor for CDR; experiments encouraged to migrate their native tapes to Castor
 - Charge for new data in 2001: 2 CHF/GB for five year storage
- Will migrate out of Redwoods in 2001

Networking, licences

- Minor items in networking
 - Policy confirmed that 100 Mb/s to desktop, if requested, must be funded by user group
- Existing database licenses cover needs in 2001
- Long-term deal with NAG for C developer licence being prepared

Budget situation

- Draft budget of IT/PDP currently short by about 1 MCHF (~ 10%) for “approved programme”
 - partially absorbed by lower prices in 2001?
- Big issue: “Testbed”. 1.2 MCHF in Medium Term Plan, 2.8 MCHF required
 - supported by Resources panel of LHC computing review
 - triggered careful review of Testbed plans

Conclusions

- Cocotime round went fairly well, thanks
 - IT division
 - referees
 - experiments
- Suggestions for improvements welcome
- Facing serious budget constraints
- Will need to re-think the role of Cocotime in view of current trends and ramp-up for LHC computing