



Computing Division Strategy

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MAC User's Group

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Why am I here?

- I was invited.
- I do not have any announcements to make about:
 - Change of policy
 - Change of support
- I am here to talk a little about CD support and to listen to what you have to say.
- I did not bring any CD people to answer technical questions or anything else.
- You just get me.

Mission Statement

The Computing Division advances the scientific mission of the laboratory by providing leadership, support, and resources in the areas of data analysis, data storage/access, data acquisition, general scientific, technical and administrative computing, and networking.

Mission - I

Program Driven Components

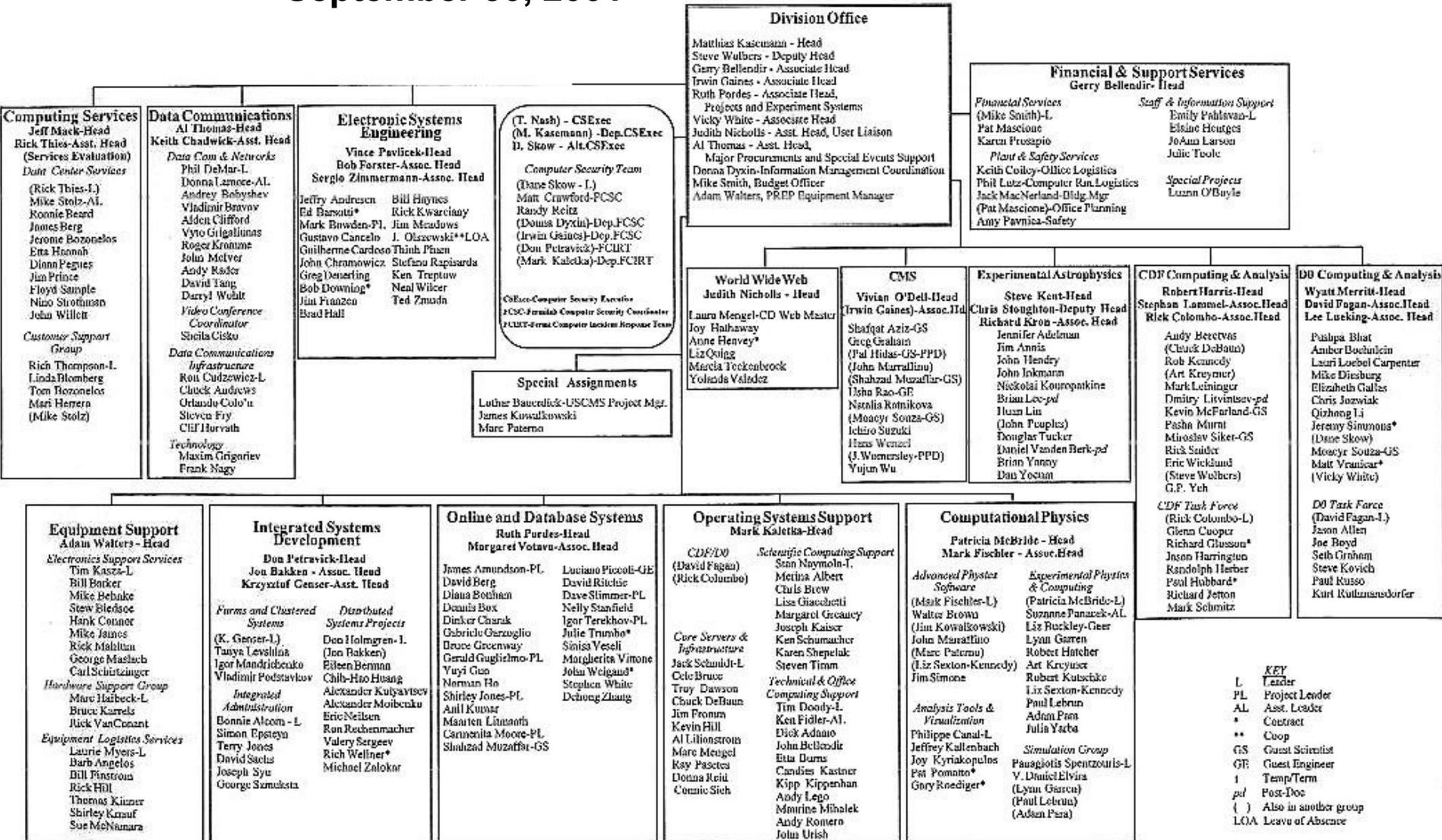
- To Help Accomplish The Lab's Scientific Mission
 - Develop and support software and hardware for data acquisition, triggering and physics analysis
 - Work with experiments to provide and maintain solutions for scientific data analysis
 - Maintain production facilities, mass storage, data bases and networks required for data analysis
 - Maintain specialized facilities -- e.g. for lattice calculations (was ACPMAPS (still is), PC cluster)
 - Support facilities for general administrative, scientific, and technical computing -- e.g. email and computer security
 - Promote cost effective solutions to common problems
 - To collaborate with other HEP laboratories on HEP computing
 - This has increased recently: LHC, Grid computing

Mission - II

- **Program Driving Component**
 - To participate in R&D for future scientific program at FNAL
 - To keep up with new technologies to be in a position to take advantage
 - To extend HEP techniques to deal with more general problems outside HEP -- tech transfer, etc.
- **Responsibilities:**
 - Run II computing
 - Other experiments at FNAL
 - Computing and Infrastructure at the lab
 - USCMS S&C
 - Externally funded projects

Computing Division Organization Chart

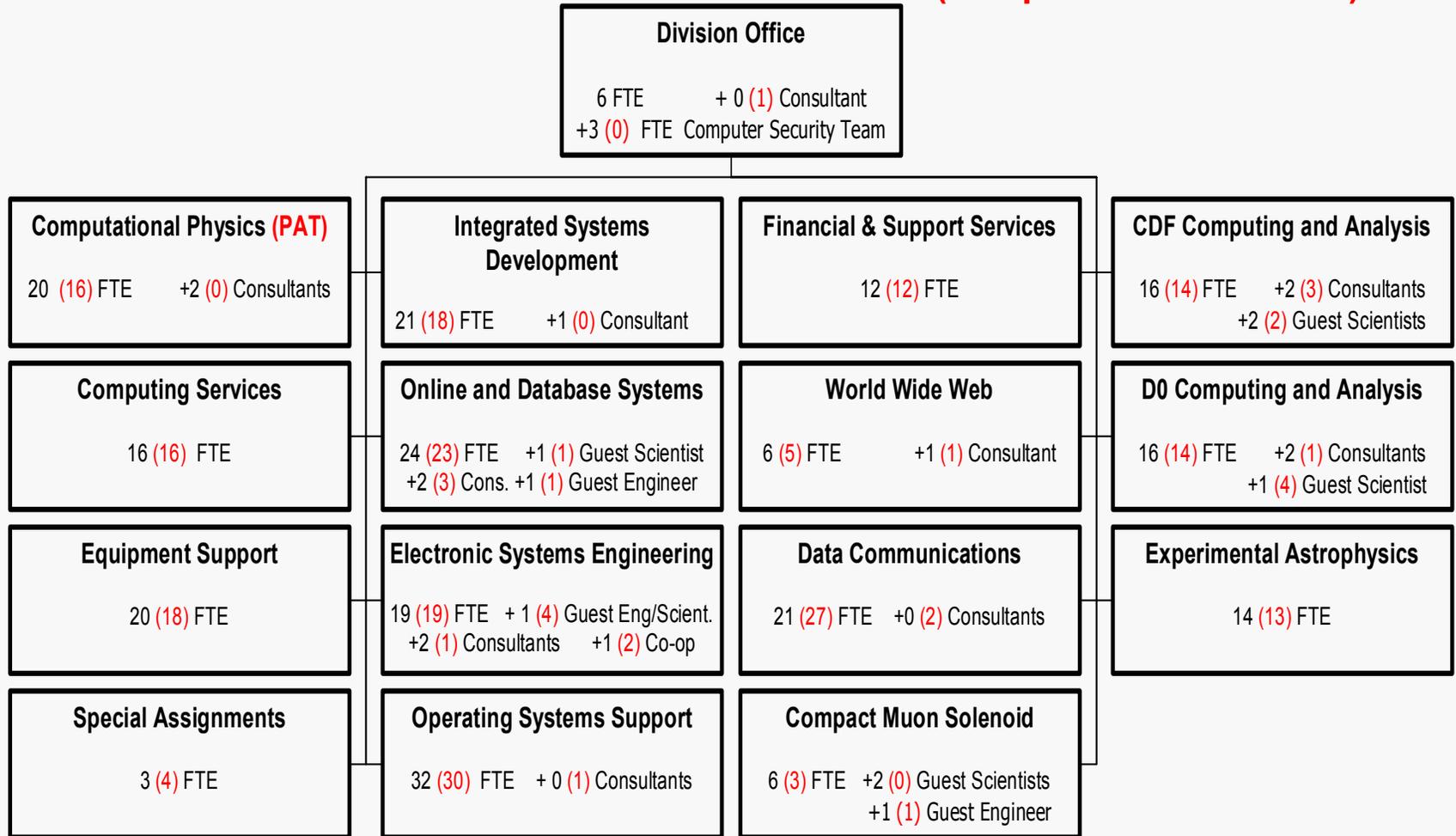
September 30, 2001



KEY
 L Leader
 PL Project Leader
 AL Asst. Leader
 * Contract
 ** Coop
 GS Guest Scientist
 GE Guest Engineer
 I Temp/Term
 pd Post-Doc
 () Also in another group
 LOA Leave of Absence

Computing Division Organization

Projected as of September 30, 2001
(compared to 9/30/2000)



CD Major Responsibilities

- Run 2 Computing (big!)
- US-CMS Tier-1 Regional Center
- SDSS, Auger Computing support
- Fixed-target Computing support
- Neutrino program Computing support (MINOS, miniBooNE)
- BTeV
- CKM



Facilities

- Linux Farms
- Central UNIX
- AFS
- Mass Storage
- CDF
- DO
- CMS
- Lattice QCD
- Networks
- KTeV/SDSS
- Operations and Helpdesk
- Email
- Web



Other

- Data Acquisition and Electronics
- Prep
- Databases
- Instrument Repair
- Asset Tracking, storage, etc.

Supported Operating Systems

- SGI IRIX
 - SUN Solaris
 - Linux
 - Windows
- This list is subject to change and has changed over the years. It represents the current mix of operating systems that are needed to get our work done.

Strategy

- The Computing Division has a limited support budget (hardware, software, effort) and must choose the solutions that allow CD to accomplish its mission. This necessarily limits the spectrum of solutions.
- The solutions chosen change over time as a response to changes in the market, changes in the field, technology choices, etc.
- Changes will continue in the future. It is not likely that the computing industry has settled on a static set of hardware, operating systems and software for all time.

MAC Policy

- **Computing Division Macintosh Strategy:** The Macintosh Operating System is no longer a supported operating system from the Computing Division and is not a strategic operating system for future plans. This means that all current installations are user supported or negotiated special cases. The current NT4 servers provide Macintosh file service, but this is NOT a requirement for our Window 2000 deployment plan and not expected to be supported. Any remaining Macintosh systems will need software to use the Windows services. We will continue to provide Macintosh services on the existing NT4 servers, but are currently making plans for migration to Windows2000. This migration should complete before the end of calendar 2001, at which time no Macintosh services will be supported.
- We will not go out of our way to disconnect or disable existing Macintosh systems at that time but there will be no support service nor compatibility testing available for them. Specifically regarding the Strong Authentication realm, the supported access method from Macintoshes will be via the CryptoCard. Kerberos clients may be available and used, but there will be no effort expended to select, test or distribute them.
- Dane Skow, OSS Department Head

What does it mean?

- The policy means that the MAC is not something that CD provides full support for.
- We help out where we can as long as it is not a significant drain of resources.
- We encourage collaborative efforts with those who are interested in solving problems.
- We see the MAC community as one that can contribute in a positive way (i.e., provides real effort).

Where do we go?

- I'm here to listen.
- Tom Jordan and others are working with CD on various MAC/PC issues. This will continue.
- Otherwise we all need to work together to optimize the lab's use of tools (be they hammers, computers, software, whatever) to get our jobs done.