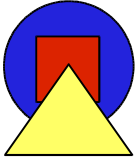


Summary of the AFS Best Practices Workshop

Alf Wachsmann

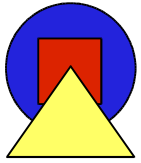
Stanford Linear Accelerator Center

alfw@slac.stanford.edu



Organization

- First international AFS Best Practices Workshop
- March 23 - 26, 2004 at SLAC
<http://www-conf.slac.stanford.edu/AFSBestPractices>
 - Agenda, list of participants, slides, pictures
- One-day tutorial: "Introduction to AFS and its Best Practices" by A. Wachsmann on Tuesday
- 5 Invited speakers: Rodney Dyer (UNCC), Travis Broughton (Intel), Phil Moore (Morgan Stanley), Derrick Brashear (CMU), Jeff Altman (Sec. Endpoints)
- Welcome reception on Wednesday
- Dinner Banquet on Thursday
- Dinner with invited speakers on Friday



Participants

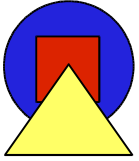
About 100 people attended

- Mostly from the U.S.
- Many participants from European HEP labs
- Mix of academic and commercial
- 4 out of 8 AFS Elders Council members

About 70 signed up for the tutorial

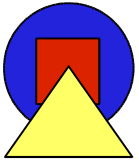
HEPiX Spring 2004





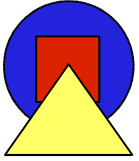
Content...

- By and large, talks had excellent quality!
- AFS in large environments:
 - Backup with TSM (S. Feng, Stanford) and TiBS (K. Hill, FNAL)
 - Software in AFS (R. Allbery, Stanford)
 - AFS related tools (R. Allbery)
 - AFS at Intel (T. Broughton, Intel)
 - AFS at Morgan Stanley (P. Moore, MS)
 - Commercial support (K. van Hees, Sine Nomine)
- Performance issues:
 - Server HW comparison (F. Tretta, JPL)
 - Client performance analysis and improvement (K. van Hees, Sine Nomine)



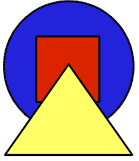
...Content...

- AFS for Windows:
 - Jeffry Altman is new gatekeeper for OpenAFS for Windows
 - "it is finally getting the love it deserves" (D. Brashear)
 - 1.2.x code was more or less unfixable => version 1.3.x
 - Bug fixes:
 - Outstanding patches have been integrated
 - Resource leaks plugged
 - New features:
 - New build system and installer
 - Kerberos 5, Freelance mode, power management support
 - A lot of known issues left



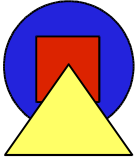
...Content

- Kerberos 5 and AFS
 - K. Hornstein (NRL)
 - ad hoc "Kerberos 5 for Dummies" tutorial (30 min) and Q&A session
 - Talk on how to integrate AFS with Kerberos 5
 - Requirements for migration kaserver to Krb5 (H. Hotz, JPL)
- State of the OpenAFS Development (D. Brashear)



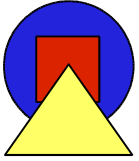
Funding...

- D. Brashear:
 - OpenAFS, Inc. is still a possibility
 - Tax status is the problem
- J. Altman:
 - He is unemployed/self-employed and needs money for OpenAFS development
 - Has set up mechanisms to pay him
 - Sub-contractor for Sine Nomine Associates
- Sine Nomine Associates:
 - Company that offers OpenAFS support
 - Their changes are and will be all open-sourced
 - Morgan Stanley, Fermilab contracted them



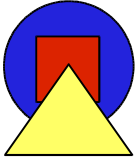
...Funding

- Opportunity for coordinated HEP Lab actions:
 - Identify commonly needed AFS features (for Windows)
 - Each lab contracts individual features with J. Altman or Sine Nomine
 - Labs pool money and make one big contract
- Good way to help out the AFS community



Social Topics

- Very pleasant atmosphere
- A lot of very open discussions (plenary and one-on-one)
- A lot of help for not-so-experienced AFS users and admins
- People got to know each other in person after mailing-list "exchanges"
- Satisfied a real need within the AFS (want-to-be) user community



Future

- There will be a full-day AFS tutorial at LISA'04 given by Esther Filderman (PSC) and me
- Very positive feedback
- First question in open Q&A session:
Where should the next workshop be? (D. Brashear)
- More Kerberos 5 was deemed necessary
- Will probably be near the U.S. east coast