The production www/ICERN version server is run on www (castor). It runs under inetd, so should not be started.

The test www servers run on Jupiter. There are currently 3 test servers on Jupiter. One, running at port 8000 is a CERN server copy, the second is the NCSA version running at port 8080, the third, running at port 8888 uses the CERN server code and is designed only for the testing of cgi scripts. All three of these servers run standalone so they are subject to crashes.

The server at port 8000 should be started by rc.local at system boot. Those at 8080 and 8888 have to be manually restarted after a reboot of Jupiter. All would have to be manually restarted in the event that they crash and/or become hung.

To check whether the standalone servers are running, log onto or jupiter and issue

```
ps -ef | grep http
```

The desired response looks something like

```
MWWW 27083 17280  0 10:25:10  0:00 /usr/local/www/httpd -v -p 8000
-r /usr/local/www/httpd.conf
MWWW 44713 1  0 14:19:17  0:00 httpd_1.1 -f conf/httpd.conf
MWWW 39991 1  0 Aug 01  0:00 httpd -r /a/juno/u12/www/test/httpd.conf
```

In this example, job 27083 is the server running at port 8000 (CERN code); job 44713 is the server running at port 8080 (NCSA code); and job 39991 is the server running at port 8888 (CERN code).

If the port 8000 server is not running, you can start it under your own account without privileges by:

```
/usr/local/www/httpd -v -p 8000 -r /usr/local/www/httpd.conf &
```

It is better to start it under the MWWW account. To do this (assuming you are authorized to rlogin (via the .rhosts file) to the MWWW account on jupiter or www):

```
rlogin jupiter -l MWWW
```

and then issue the above command.

If the port 8080 server is not running, then you will need to logon to the MWWW account on jupiter:

```
rlogin jupiter -l MWWW
```
cd to www/ncsa and issue the command:

```
httpd_1.1 -f conf/httpd.conf &
```

If the port 8888 server is not running, then you will need to logon to the MWWW account on jupiter:

```
rlogin jupiter -l MWWW
```
cd to www/test and issue the command:

```
httpd -r /a/juno/u12/www/test/httpd.conf &
```
If you have questions then contact:
Bebo White

Failing that, John Haiperin, Les Cottrell or Tony Johnson should be able to help.

Bebo White
August 3, 1994

================================================================================
Amendment - November 3, 1994

The WWW server on castor is now running stand-alone rather than under inetd.
This means that the server is started from the bootstrap command file (/etc/rc
.local)
so that it runs continuously.

Should it be necessary to restart the server (especially in the case of it bec
oming
hung OR if changes are made to httpd.conf), it is possible to do so without re
booting
castor.

An account with SUDO privileges (not MwWw) should login to castor and from the
/usr/lib/www directory issue the command:

    sudo httpd -restart -r /usr/lib/www/httpd.conf

After being prompted for a password, a message indicating that the server has
restarted should be received.

Bebo White
November 3, 1994
We're currently backlogged (which is good news from our perspective :-), so I'm guessing it'll be in the 3-week range, but I'll fire it off when I've got the product.

On the UNIX front, we are working on 2.0 for Sun and HP, don't anticipate getting AIX until 3.0 ('96). Of course, customers with large checks sometimes change the plan, but that's where we currently stand.

Peter Deutsch has announced support for PDF in Ghostscript, and we would like to see native PDF viewing capability in web browsers, so there may be alternative solutions available for you before we get there. A friendly note to your favorite browser vendor asking for support for PDF is always appreciated by us here in the Acrobat trenches...

cheers,

Pam

---

Subject: Acrobat, PDF Viewer
From: BEBO@SLAC.STANFORD.EDU at cc_smtp2
Date: 1/17/95 3:45 PM

Pam,

It was fun to see you *in action* at MacWorld - you sounded great! I hope that you were serious about sending me a copy of the new Mac version (since you announced to the world that I was ineligible to win it...)

Meanwhile, what's the status of the free viewers for Unix. The only one we have is for the Sun, what about AIX? The SLAC Publications folks are doing some great things in PDF and the lack of viewers on all of our supported platforms is the only thing keeping us from distributing their work on the Web.

Thanks,

Bebo
Technical Group Meeting 1/19/95 Notes

Attendance: Les Coltrall, Tony Johnson, Bebo White, Joan Waters, Pat Clancy, John Halperin

Agenda:
- New server setup, progress, problems, etc.
- Repointing www, www-slac, www-spires aliases
- How to proceed with moving off VM, migrating to new URL scheme etc.
- Template file - discussion of technical issues
- Progress in: Stylistics - Pat

New server setup, progress, tests etc.
- Files for new server are in place on www1. They are saved in /usr/lib/www/master.conf. The actual siter, .file, are generated by make to create prod.config & test.config in the same directory.
- Action item: John check that only a limited set of people can logon to new www server.

At 7:31 1/19/95 the default www alias will point to the new machine (www1).
- Action item: Les fix the script that displays the prod.config mapping entries. It will be secure only & display "pass & map.

Bebo has fixed up the "how to fix" file.

Repoint . /www-slac, www-spires aliases?
The proxy server, in theory, can handle these requests if pointed to www1 (new www).
* Tony will check spires queries do/dont go can/cannot be cached
 will check out www for a week before move www-slac/www-spires.
* slac/glossary/slac speak needs to work Tony J will follow up.

How to move off VM, migrating to new URL scheme.
   Tony wants to delay until www-slac is moved.
   Move files off VM & put a pointer to new www
   in order to look at log file, to find density
   of access via various URLs.

We came to no conclusions. The discussion is tabled until a future meeting.
In order to accommodate the fact that only

Some were have a lot we could say much

Queene anu a number

of bolts produced at least the oz to allow one could extend the to allow another

one could extend the flange the connection

and the flange in /g/ or you up.

and another /v/ or /w/ or /g/ or

of nobody to make it who

is another thing and can be

aromatic and some far. Also the actual

doing two and passed to have a

the other column it and another the field.

This is needed to make a change for

We find a better source either reduce

the problem and located under

the only serecst which is now is green. A clear e.g. if we lose a man can make a call.

T systemic to be even or fundamental. Even though

addressed be placed in the temporary

They proposed a scheme to allow more dynamic

1:1 moment of Fennel & Techmecf 1983
Stylistico Progress

Rick Kreitz has go P.A. Moore's agreement to claim the stylistico.

AcB:

- Beho checked w/ Adobe about a PDF viewer for AIX/6000. They said not until 1996.
- Apparently the author of Ghostscript will provide support for PDF.
- Louise has a test version of an extension to Netscape to allow support for personal URLs & to allow aliases, such as webmaster.
- There is no good/acceptable Mac Ghostscript viewers.
- PC people are concerned about WWW support for PCs. Dennis was invited to attend & be made aware of issue.
- Beho/Joan asked if Netscape should be supported. Tony had a concern due to disk space requirements.
- Dennis related resource concerns (3 FTEs to support >1200 PC/ Maco). Dennis expressed willingness to attend the WWW tech day to address specific issues. We agreed to have a future agenda item on PC support for WWW, & encourage Wintheg, Winskibliad.
To: Rich Parker, Peter D. Little, Kenneth MacKenzie

From: Pandora Hurley

Date: Fri, 13 Apr 1993

Re: Project 690: Election Day

Subject: Election Day Meeting

The following meeting has been finalized through the meeting scheduler, and
will take place at the date, time, and location listed below.

Meeting Time: Mon, May 17, 1993, 12:00-1:30
Location: Gordon Blethen Building, Room 4612

Please plan your lunch for the following speakers:

Speakers:
- William F. Ilsley, Commonwealth Attorney
- Tom Chilton

Thank you for signing up for this meeting. Please let us know if there are any changes.
Subject: Definition of a Networks Management

From: "John"<br>
Date: Thu, 27 Aug 1993 17:53:03 -0400 (EDT)

The problem of not being able to post.

It may be worthwhile to consider access to the production.

Adding the description of the test field gives us another possibility for

Since users cannot post articles last access. This access.

We should be concerned about impact on this space.

I can make any group "non-expirable", dynamically, if I feel a lot of

John.
suggestions for improvements etc.

I'm sure there are more. I am working on fixing all of these, but

and more.

Please fill in the blank areas. I don't think it'll happen up

3) Editing many postscript documents causes strange things
   to happen. Please fill out the blank areas. I don't think it'll
   happen up.

I am sure you are familiar with the command above.

I have installed the latest version of postscript. To run it you should

Please fill in the blank areas. I don't think it'll happen up.

Please fill in the blank areas. I don't think it'll happen up.

Please fill in the blank areas. I don't think it'll happen up.
The whole server is only 50K of perl source. The base server is only 15K, that includes the directory browser. The rest of the total is 1K of documentation and 22K for the various gateways (1641 lines)

This server is based on the perl server developed at cs.indiana.edu

I did some work to make this code more portable and then I've been adding gateways like crazy.

I've been running it for several weeks now adding a little bit each night.

This server is NOT supported in any way, but feel free to send me comments or bug fixes. Note that the gateways are designed to work on a BSD/386 system and might require some changes on other systems (the date gateway is a good example). I've tried to make the gateways as similar to the BSD ones as I can.

Features:
The Date and Time Gateway See the date and time in any timezone (demo)
The File Gateway with file-size support (demo)

The Finger Gateway with a new protocol (demo)

The Force Gateway with a new protocol (demo)

Get a fortune cookie (demo)
This reminds me of the IETF meeting yesterday... Bob, it sounds like it takes a bit of the letter "w" stand out reasonably clearly. Plus, you're sticking up 3 fingers, so it represents the number 3. So it's "hi! It's 3! What more could anybody possibly ask for an official IETF handshake based on this."

Hold your hand like this one, stick it up, and curl your pinky down. Three fingers are now sticking up. Spread them apart (if you keep them together, you look like a Boy Scout!)

Now, it makes the letter "w" stand out reasonably clearly. Plus, you're sticking up 3 fingers, so it represents the number 3. So it's "hi! It's 3! What more could anybody possibly ask for an official IETF handshake based on this."

Cynthia said IETF is an information-sharing system for the
This is a letter to a friend discussing the quality of a meal they had.

Subject: [No subject mentioned]

Date: [No date mentioned]

To: [Friend's name]

Hi [Friend's name],

Just wanted to let you know how much I enjoyed the meal we had last night. The food was delicious, and the service was outstanding.

I think I would order the same thing again. What about you? Did you like it as much as I did?

If you have any questions or want to discuss it more, feel free to reply.

Best,

[Your name]
The best signs come from above, bestowed precociously on the world's periphery. I don't know much, but I do know the world is full of surprises. The contrast of the project room is different from the world, and it is a world in its own right. The contrast of the world, the contrast of the project room is different from the world, and it is a world in its own right. The contrast of the world, the contrast of the project room is different from the world, and it is a world in its own right.
I agree that we could avoid anything here or cut everything.

For all questions, if anyone interested in sharing ideas to create a new

standard or something similar, we could set up a discussion group

for the sharing. Just like the current generation, they have taken on

standards themselves. It's a different

process. I have been involved in discussions like this, but I'm not

enthusiastic about it.

The main issue is that I'm not interested in it. There's no

particular interest in it. I don't know what's going to happen.

The only difference is that I can see the "yes" to the proposal.

The only difference is that a person may not know what's going
to happen.
Restricted access by account number and IP address.

Prints out calendars by month and year, with also do make years.

Calendar

Print a fortune from the fortune database.

Fortune

Search keywords.

Alters file headers and footers. Use can specify titles utilizing
Search directory. Last modification stamp, title size, and directory indicator.

Directory Browser

Filters people and print out relevant faces.

Filter Category

Displays the date and time using different timezone translations.

Data and Time Category

Following features:

Please see an HTTP server written in perl that includes the

Performance

If you are happy with them you can load them at starting for better

In case you are new to this list, I've included some basics about perl.

Perl and talk about writing new extensions.

This simple script, I need to add the book mark stuff, flush out the internals

Perl and talk about writing new extensions.

I needed to add the book mark stuff, flush out the internals

Perl and talk about writing new extensions.

I needed to add the book mark stuff, flush out the internals

Perl and talk about writing new extensions.

I needed to add the book mark stuff, flush out the internals

Perl and talk about writing new extensions.

I needed to add the book mark stuff, flush out the internals
Received: from SERV02.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 1985; Thu, 16 Sep 93 23:54:56 PST
Received: from DIRECTORY-DAEMON by SERV02.SLAC.STANFORD.EDU (PMDF V4.2-12 #4747) id <01H3198QVPB4003QPU@SERV02.SLAC.STANFORD.EDU>; Thu,
16 Sep 1993 23:52:47 PDT
Received: from dxmint.cern.ch by SERV02.SLAC.STANFORD.EDU (PMDF V4.2-12 #4747) id <01H31969QVDC0041NF@SERV02.SLAC.STANFORD.EDU>; Thu, 16 Sep 1993 23:50:51 PDT
Received: from www2.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA23870;
Fri, 17 Sep 1993 08:50:29 +0200
Received: by www2.cern.ch (NX5.67c/NX3.0S) id AA00625; Fri,
17 Sep 93 08:51:06 +0200
Received: by NeXT.Mailer (1.87.1)
Received: by NeXT.Mailer (1.87.1)
Date: Fri, 17 Sep 1993 08:51:06 +0200
From: cailliau@cernnext.CERN.CH
Subject: Re: info.cern.ch
To: Bebo White <BEBO@SLAC.Stanford.EDU>
Message-id: <9309170651.AA00625@www2.cern.ch>
X-Envelope-to: BEBO@SLACVM.SLAC.Stanford.EDU
Content-transfer-encoding: 7BIT

> Robert,

> Who can I communicate with re: the technical details of
> info.cern.ch?

Well, there are two possibilities here:
The info machine serves up technical stuff about the web. Tim does
that. It is a NeXT cube.
The www machine serves up the CERN information and is a SUN
Sparcstation 2 with two 1Gb external discs for data. It is in the
computer centre on UPS etc. Ari Luotonen and I maintain that. It runs
standard unix things, and has two system disks for easy transfer in
case of hardware problems. So for that one you should see us, and you
are welcome to clone it including the index service and the log
programs etc.

> It’s been suggested that we setup an info.slac.stanford.edu
> and it might be easier if we just clone info.cern.ch.
>
> Thanks and my best to all (send me your November dates!)
>
> Bebo

Will do, and many thanks again from Susan for the stamps.
Robert.
<Directory ~ ~ ~> 

<Limit GET>
order deny,allow
deny from all
allow from .sbc sbu60.edu
</Limit>
</Directory>
<A href="http://www.example.com">example</A>
Documentation for httpd has been moved online. See the URL:
A HREF="http://hadoop.ncsa.uiuc.edu/*here*/*A*" for online hypertext
documentation including installation instructions, feature list,
demonstration, etc.

Documentation can also be found where you found this .tar file, in a file
called httpd_docs.tar.Z.

--Rob, Marc, and Eric http://ncsa.uiuc.edu

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domain all rights for future licensing of the source code, all resale
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We ask, but do not require, that the following message be included in
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PARTICULAR PURPOSE.
Bebo,

John Kunze of Adobe is available for a demonstration of the WWW system Friday 10/22 in the morning or afternoon. John prefers 10/22, but if that does not work, he's free Wed or Thu 10/27 & 28, or Fri 10/29 in the morning. I'd suggest blocking out about two hours, to allow time for both demonstration and discussion. If the visitors from Adobe are interested in discussions of the technology underlying WWW, we should make ourselves available for an additional hour or so.

Please let me know which time is best for SLAC.

As a tentative agenda for our meeting, I'd suggest:

1) Explanation of why SLAC is using the WWW technology, and the extent of the WWW effort at SLAC. If SLAC has explored use of Acrobat, I'm sure Adobe would like to hear how it fits in at SLAC, or if it doesn't fit in, why it is not being used.

2) Demonstration of WWW access to documents stored at CERN and other sites on the Internet, with some access to documents stored locally at SLAC, so Adobe can get a sense of the latency introduced by the Internet (usually insignificant, as we WWW users know!).

3) Viewing of some of the flashier WWW documents such as the Vatican exhibit, to show WWW support for a range of file formats, including graphics. (Not just physics papers, ok? :-)).

4) If convenient, a look at WWW browsers running on platforms other than the X Window System, to see a range of implementations and acknowledge how many organizations are involved in developing for WWW
worldwide.

5) A look at the format of a typical html file, so Adobe can see what it looks like.

6) A close look at the URL (Universal Resource Locator) scheme and discussion of the evolving URN (Universal Resource Name) Internet standard. (This forms the basis for globally distributed hypertext links in WWW and may be relevant to Adobe's current efforts at extending Acrobat to accommodate cross-document links).

7) We'd like to hear from Adobe about plans for Acrobat version 2.0, the new APIs that will allow third-party extension of Acrobat, and Adobe's work on cross-document links, with the understanding that Adobe cannot disclose proprietary information.

8) Any further questions or discussion, including initial impressions about possibilities of making WWW research available to Adobe, collaboration with Adobe on extending the pdf specification to accommodate the URL standard, possibilities of initiating development of a browser that could read both html and pdf documents (what organizations would undertake such an effort? what cooperation is possible?).

I'll take on the role of moderator and facilitator, and try to address the interests Adobe will have in commercial application of this technology. I'd appreciate if someone from SLAC could serve as a technical expert, answering questions about how things work.

If anyone (John? Bebo? Robert?) would like to suggest changes to this agenda, please email me.

The following people will likely participate in the meeting:
Daniel Kehoe of Marble Associates, Bebo White of SLAC, Paul Kunz of SLAC, John Kunze of Adobe (Applications Product Manager), Rob Babcock of Adobe (Acrobat Product Manager), Bob Wulff of Adobe (Engineering leadership).

If you'd like to include other people, please email me with a name and the person's role or responsibility.

Regards,
Daniel Kehoe
kehoe@marble.com
415-488-9142 (Calif office)
617-891-5555 (Marble Associates office)
MAILSTMP FILE Al Dated 10/18/93 12:05:46 From disk BEB191 Page 1

Received: from SERVO3.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 4085; Thu, 14 Oct 93 16:46:23 PST
Received: from DIRECTORY-DAEMON by SERVO3.SLAC.STANFORD.EDU (PMDF V4.2-12 #4747) id <01H43YHZS4Y800251S@SERVO3.SLAC.STANFORD.EDU>; Thu,
14 Oct 93 16:45:46 PDT
Received: from carrara.bos.marble.com by SERVO3.SLAC.STANFORD.EDU (PMDF V4.2-12 #4747) id <01H43YHQOPBK002AWF@SERVO3.SLAC.STANFORD.EDU>; Thu,
14 Oct 93 16:45:27 PDT
Received: from makrana.bos.marble.com by carrara.bos.marble.com with SMTP id AA18823 (5.65c/IDA-1.4.4 for BEBO@slac.stanford.edu); Thu,
14 Oct 93 19:37:48 -0400
Received: by makrana.bos.marble.com (NX5.67d/NX3.0X) id AA00466; Thu,
14 Oct 93 19:38:11 -0400
Received: by NeXT-Mailer (1.95)
Received: by NeXT Mailer (1.95)
Date: Thu, 14 Oct 93 19:38:11 -0400
From: Daniel Miles Kehoe <kehoe@marble.com>
Subject: phone notes from call from Kunze of Adobe
To: cailliau@ptsun00.CERN.CH (Robert Cailliau),
   Bebo White <BEBO@SLAC.Stanford.EDU>
Cc: marca@ncsa.uiuc.edu (Marc Andreessen), kunze@adobe.com
Message-id: <199310142337.AA18823@carrara.bos.marble.com>
X-Envelope-to: BEBO@SLACVM.SLAC.Stanford.EDU
Content-transfer-encoding: 7BIT

Robert Cailliau (CERN), Bebo White (SLAC), Marc Andreessen (NCSA),

To facilitate our group communication process, I've taken the liberty of transcribing my phone notes from my conversation with John Kunze of Adobe today. John, my intent is to fill in Robert and Bebo so we're all in step. Marc, as part of our working group, you should see them too, since you wish to stay informed of developments related to WWW and Acrobat.

Please comment if I have expressed anything that doesn't conform to your sense of our agenda in this initiative.

Please don't copy the notes for others without asking John and I, in the interests of our privacy.

Regards,
Daniel Kehoe

Begin forwarded message:

To: kehoe@marble.com
Subject: Call received from John Kunze by Daniel Kehoe

Call received from John Kunze at Adobe Systems Incorporated at Thu Oct 14 13:46:55 1993 EDT

(Kehoe) what was Kunze's reaction when he rec'd the letter from CERN re WWW?--
(Kunze) piqued his interest, would love to hear more in person--we can do that, but just to recap, we're interested in talking about
an extension to the pdf spec that would allow hypertext links between pdf files, which would allow someone to build browsers that could navigate links over a global network, not addressing now who would build those browsers, whether it would be Adobe or third parties, but it could mean compatibility with the existing Wordwide Web system of global distributed hypertext--

yes, interested in exploring this--

Kehoe has some steps in mind, Robert Cailliau from CERN will be in Bay Area 11/11 and 11/12, and we could meet, but Kehoe suggests that Kunze may first be interested in a demo of WWW, assuming he hasn't seen it before?--

no, hasn't seen it, would like to--

we have an invitation from the folks at SLAC, they'd be happy to demo the system for Adobe, SLAC has a major commitment to WWW as SLAC's primary info retrieval system, we can see it running on a variety of platforms, inc X Window System, Mac, NeXTSTEP and maybe PC Windows too--

ok, that'd be good, does Kehoe know if there's been any contact between SLAC and Adobe?--

Kehoe can ask, Bebo White at SLAC didn't mention one--

Kunze will check, believes Adobe and SLAC have had discussions about Acrobat--

who would Kunze contact at SLAC for a demo?--

Kehoe can arrange it, will email Bebo White, the leader of the WWW initiative at SLAC, just need a day and time that works for Kunze--

ok, at Seybold Show next week, but can be available Fri 10/22 in am or pm, or Wed or Thu 10/27 & 28, or Fri 10/29 in am--

ok, will check with SLAC, can Kehoe reach Kunze via email? Kehoe has heard Adobe's email system is a mess, does Kunze use the internal QuickMail system?--

yes, but regularly receives Internet email, try sending to kunze@adobe.com--

ok, Kehoe will try immediately, folks involved with WWW use Internet email extensively as he might imagine, makes communication easier--

yes--

Kehoe will just mention some of the interests Kehoe has right now, which may illustrate the possibilities worth exploring in regard to Acrobat and WWW, Kehoe has a long-term contract with Marble Associates, which is a consulting firm that does IS transformation and reengineering for Fortune 500 companies, clients include NCR, Consumers Power of Michigan, Liberty Mutual--

that's interesting--

Kehoe is managing the company's practice development, which means finding a way to take all the company's knowledge and formalizing and codifying it to be accessible to all the client teams, right now the company's knowledge is in the form of PowerPoint presentations and Framemaker documents, and we've been looking at ways to disseminate our publications, have had some interest in Acrobat, because of all the reasons Kunze might expect, esp. cross-platform access, use of any authoring tool that saves to PostScript, but we're not happy that Acrobat is restricted to links within a single file, we want to avoid the publication versioning problem by maintaining a document in one place and letting our client teams access across a WAN--

so there'd be a single document?--

no, actually would have to be a library or repository of documents with links between them, and we've looked at WWW for that, except that WWW is presentation-neutral, comes out of the SGML world, means