

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA24634; Tue, 8 Dec 1992 08:36:08 +0100  
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA16959; Tue, 8 Dec 92 08:20:53 MET  
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA23306; Tue, 8 Dec 1992 08:34:16 +0100  
Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA02091; Tue, 8 Dec 92 08:28:54 +0100  
Received: by NeXT.Mailer (1.87.1)  
Received: by NeXT Mailer (1.87.1)  
Date: Tue, 8 Dec 92 08:28:54 +0100  
From: Tim Berners-Lee <timbl@www3.CERN.CH>  
Subject: WWW: World-Wide Web information browser on VM  
To: www-announce@nxoc01.CERN.CH  
Reply-to: timbl@nxoc01.CERN.CH  
Message-id: <9212080728.AA02091@www3.cern.ch>  
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

### World-Wide Web browser update on VM

WWW is a general-purpose information access tool, accessing information from CERN and many other HEP sites. The WWW line-mode browser on CERNVM has been upgraded. To use it, just type

WWW

The following improvements have been made over the previous version:

1. The function keys within WWW have their conventional meanings  
PF2=Next PF3=Quit PF4=Return PF7=Up PF8=Down  
and the WWW commands have been renamed for the same significance  
(That is, Quit goes back one level only, and Return exits the program)
2. WWW can be used to read internet news. (A bug previously prevented this).  
You can find newsgroups by browsing, or to get to a specific one just type  
for example

WWW news:alt.hypertext

(or within WWW, "go news:alt.hypertext")

3. It is now possible to save a document you are reading using a ">" command  
inside WWW, with the complete file specification

> JUNK TEXT A

will save a copy of the document you are reading to a file JUNK TEXT A

4. You can execute other CMS commands from within WWW by preceding them  
a "!" sign:

! XEDIT JUNK TEXT A

for example.

5. There are several other bug fixes and improvements which are documented  
in the online documentation.

The WWW program is still not a complete VM full-screen hypertext editor,

but is significantly more useful with the new release.

The WWW MODULE and WWW EXEC files are also available by anonymous FTP from info.cern.ch -- cd to /pub/www/bin/vm and get the EXEC in ASCII mode and MODULE in BINARY mode.

Many browsers for other platforms exist. Sources and some binaries are available from the same FTP site. Details are available just by browsing the web. Comments and suggestions please to www-bug@info.cern.ch

---

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 12/08/92 23:10:16 >ADDIS WWW breaks in XA

=====  
 Date: Tue, 08 Dec 1992 22:53 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM,  
 WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, SUZANNE@SLACVM, ILSE@SLACVM,  
 jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD  
 Subject: WWW breaks in XA

Steve Carlson warned me tonight that WWW blows up XA. Since XA is going to be the default on SLACVM fairly shortly, it's a problem. Bebo, is this something you can deal with? Does the new VM version solve the problem?

For those of you who haven't tried XA, just SET MACHINE XA, and IPL CMS. To see what you're running in, do QUERY SET and you'll see whether it is '370' or 'XA'.

Cheers, LXA

==:B:==

==:T:== 12/09/92 11:43:17 >GALIC getting ready to demo W3 and Midas for the Director

=====  
 Date: Wed, 09 Dec 1992 10:40 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: GALIC@SLACVM, TONYJ@SLACVM, BEBO@SLACVM, CRANE@SLACVM, WINTERS@SLACVM  
 Subject: getting ready to demo W3 and Midas for the Director

Burt is very interested in the WEB (particularly the potential for viewing the full text of journal articles on line) ...and I have promised to arrange a demo of TonyJ's MidasWWW browser for him in the next few weeks. Decisions at APS and AIP rest on what he thinks of the potential. (As you may know, BR is incoming President of the APS.)

The physics community realizes that the Bulletin Board have brought on-line journals almost to our doorstep and there is much casting about for the next step.

There are issues such as cost recovery and billing for the APS in connection with their journals...however, with all the articles being submitted in TeX, the actual viewing should be doable.

BR is pushing very hard and is ready to send someone to NY to demo if he likes what he sees.

One thing I want us to do is present a list of papers from a given bulletin board with click points for abs and paper.

First you see an entry for 'Physics Bull.Boards' and click then you see Recent papers on HEP-TH <click>, HEP-PH<click>, etc. then you see a list of the last two weeks of papers from each bull board...just the titles & the bull bd # and click point for abs.

It would be super, of course,if we could have a couple of papers which we could actually view with graphics....as examples of what might be done.

Maybe we should also demo Eric's system...we'll need to bring it up on the NeXT?

I'll definitely build those new indexes in HEP this weekend so that the BB AND BBN searches will be 'direct' rather than 'indirect' and thus much faster and send BR some background reading on the WEB. Tony do you have some color pictures which would be appropriate? Harv do you have time to tinker a format for the BB title,# list?

Our next WWW meeting will be on 16 December...and there's much to do in the meantime.

-L

P.S. Bebo, one really important demo will be the APS News which you are arranging with Billie Bennett ... and I guess you'll be updating the line browser on VM?

==:F:== Forward from ADDIS

=====  
Date: Wed, 09 Dec 1992 11:44 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: RCHAN@SLACVM, LIRYG@SLACVM, cottrell@unixhub.slac.stanford.edu  
Subject: getting ready to demo W3 and Midas for the Director

Forwarded-from: ADDIS

FYI

==:F:== Forward from ADDIS

=====  
Date: Wed, 09 Dec 1992 11:51 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: BURNE@SLACVM  
Subject: getting ready to demo W3 and Midas for the Director

Forwarded-from: ADDIS

fyi, I'm sure Burt will want to know about full-text SLAC preprints in this connection. What shall we tell him? This week we received 32 CERN preprints in the mail. We already had 24 off the bulletin boards. Louise

==:F:== Forward from ADDIS

=====  
Date: Wed, 09 Dec 1992 13:03 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: CLANCEY@SLACVM  
Subject: getting ready to demo W3 and Midas for the Director

Forwarded-from: ADDIS

FYI

==:F:== Forward from ADDIS

```

=====
Date: Wed, 09 Dec 1992  21:56 -0800 (PST)
From: "Louise Addis" <ADDIS@SLACVM>
To: SJBTH@SLACVM
Subject: getting ready to demo W3 and Midas for the Director

```

Forwarded-from: ADDIS

FYI (as mentioned in my 'problem with libcomm' mail)

==:F:== Forward from ADDIS

```

=====
Date: Wed, 09 Dec 1992  22:42 -0800 (PST)
From: "Louise Addis" <ADDIS@SLACVM>
To: SLAVKO@STANFORD
Subject: getting ready to demo W3 and Midas for the Director

```

Forwarded-from: ADDIS

FYI

==:B:==

```

==:T:== 12/08/92 23:49  timbl  @nxoc01. WWW Library bug fix release
=====
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTP id 7187; Tue, 08 Dec 92 23:49:48 PST
Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Tue, 8
Dec 1992 23:49 PDT
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA11863; Wed, 9 Dec 1992
08:34:51 +0100
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail
5.52)/NeXT-2.0) id AA24505; Wed, 9 Dec 92 08:19:36 MET
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA11726; Wed, 9 Dec 1992
08:33:00 +0100
Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA00892; Wed, 9 Dec 92 08:26:45
+0100
Received: by NeXT.Mailer (1.87.1)
Received: by NeXT Mailer (1.87.1)
Date: Wed, 9 Dec 92 08:26:45 +0100
From: Tim Berners-Lee <timbl@www3.CERN.CH>
Subject: WWW Library bug fix release
To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH
Cc: Denis DeLaRoca 825-4580 <CSP1DWD@mvs.oac.ucla.edu> (310)
Reply-to: timbl@nxoc01.CERN.CH
Message-id: <9212090726.AA00892@www3.cern.ch>
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU

```

There have been a few bug fixes in the WWWLibrary. (This product is needed for the line mode and Viola browsers.) Bug fixes between 1.0b and 1.0c are as follows:

- Fixed bug in FTP handling (FTP file retrieve put control connection in bad state)
- Fixed bug in Gopher handling on non-ASCII platforms.
- Fixed bug in Gopher search of index whose name contained characters (such as

blanks) escaped with %.

- Fixed bug in NEWS handling: failed on non-ASCII platforms.

I have released a version 1.0c which is in ftp://ifo.cern.ch/pub/www/src as usual. For differences between earlier versions consult http://info.cern.ch/hypertext/WWW/Library/Features.html .

Tim BL

==:B:==

==:T:== 12/08/92 23:10 ADDIS WWW breaks in XA

=====

Received: by SLACVM (Mailer R2.08 R208004) id 6953;

Tue, 08 Dec 92 23:10:12 PST

Date: Tue, 08 Dec 1992 22:53 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, SUZANNE@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD

Subject: WWW breaks in XA

Steve Carlson warned me tonight that WWW blows up XA. Since XA is going to be the default on SLACVM fairly shortly, it's a problem. Bebo, is this something you can deal with? Does the new VM version solve the problem?

For those of you who haven't tried XA, just SET MACHINE XA, and IPL CMS. To see what you're running in, do QUERY SET and you'll see whether it is '370' or 'XA'.

Cheers, LXA

==:F:== Forward from ADDIS

=====

Date: Wed, 09 Dec 1992 22:11 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: cottrell@unixhub.slac.stanford.edu

Subject: WWW breaks in XA (FYI only)

Forwarded-from: ADDIS

==:B:==

==:T:== 12/08/92 22:26 SRCHP XA failure of WWW

=====

Received: by SLACVM (Mailer R2.08 R208004) id 6647;

Tue, 08 Dec 92 22:26:46 PST

Date: Tue, 08 Dec 1992 22:26 -0800 (PST)

From: SRCHP@SLACVM

To: ADDIS@SLACVM

Subject: XA failure of WWW

Getting all the special disks now

WDISK Contains unsupported software - use at your own risk.

This is a good place to cathart some feelings.

You have 80 mail items in UNREAD NOTEBOOK A0.

AVGPROC-100% 03

XSTORE-000087/SEC MIGRATE-0000/SEC

XSTORE MDC READS-000088/SEC WRITES-000001/SEC HIT RATIO-099%

STORAGE-050% PAGING-0004/SEC STEAL-000%

Q0-00001(00000)

DORMANT-00446

Q1-00003(00000) E1-00000(00000)
Q2-00001(00000) EXPAN-002 E2-00000(00000)
Q3-00018(00000) EXPAN-002 E3-00000(00000)
PROC 0001-100% PROC 0000-100%
PROC 0002-100%

Ready; T=5.55/6.10 22:18:29

www

DMSITP141T Addressing exception occurred at 80014210 in routine WWW
CMS

close con

==:B:==

==:T:== 12/11/92 22:43 GALIC Think that something is wrong with WWW

=====

Received: by SLACVM (Mailer R2.08 R208004) id 1963;
Fri, 11 Dec 92 22:43:39 PST

Date: Fri, 11 Dec 1992 22:37 -0800 (PST)

From: "H. Galic"

<GALIC@SLACVM>

To: ADDIS@SLACVM

Subject: Think that something is wrong with WWW

Louise, I was playing with WWW today (line mode) and found strange
behaviour after applying BACK in various SLAC's databases. I also
see some PF keys at the bottom of the screen which were not there
before. Is that something new? No answer is needed; I'll probably
be able to come to SLAC on Monday and show you the strange WWW responds.

Harv.

==:B:==

==:T:== 12/11/92 05:56 timbl @nxoc01. Telnet site lists on World-WideWeb with Hytelnet

=====

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTTP id 7765; Fri, 11 Dec 92 05:56:48 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Fri, 11
Dec 1992 05:56 PDT

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA03311; Fri, 11 Dec 1992
14:52:26 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail
5.52)/NeXT-2.0) id AA11402; Fri, 11 Dec 92 14:36:23 MET

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA02303; Fri, 11 Dec 1992
14:49:50 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA02667; Fri, 11 Dec 92 14:43:24
+0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Fri, 11 Dec 92 14:43:24 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: Telnet site lists on World-WideWeb with Hytelnet

To: iir@merit.edu, Networked Info Retrieval discussion <nir@cc.mcgill.ca>,
Public-Access Computer Systems Forum <PACS-L@uhupvml.bitnet>, wg-isus@rare.nl,
www-announce@nxoc01.CERN.CH

Cc: lis-link@mailbase.AC.UK

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9212111343.AA02667@www3.cern.ch>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

Telnet site lists on World-WideWeb with Hytelnet

You can now browse around Peter Scott's excellent list of on-line library
catalogues and other things directly using WWW.

The hytelnet list is a hypertext database with pointers to the telnet sites.
Sites are grouped into Library catalogues and "others". The library catalogues
are arranged geographically, and the "others" by function.

There is also a good collection of on-line help for many library catalogue query systems which you may come across, and lists of which libraries use which software.

A server running at CERN gives a WWW view of the Hytelnet data. If you have a WWW browser, point it at

http://info.cern.ch:8002/w3start.txt

There is a pointer under "Libraries" in the WWW subject list on info. Until libraries start putting their catalogues directly on the web, this will be the most convenient way to find out what there is out there.

The pointers allow you to jump straight to the login prompt at your chosen library. For security reasons, you cannot do this jump if you are already logged in to a public WWW service -- you must run a WWW browser locally. Your WWW browser must of course also support telnet jumps, as the line mode browser (www) does. The line mode browser is available by anonymous FTP from info.cern.ch (128.141.201.74) in /pub/www/src (source) /pub/www/bin/ (binaries for some machines). The software used to run the server is also available: read document http://info.cern.ch/hypertext/WWW/HytelnetGate/Overview.html with www.

NOTE: The server makes extensive use of the <PRE> formatting tag, so your version of the browser should be based on the WWW Library off version 1.1 or later, or the display will be badly formatted.

Comments/suggestions/bugs on the software to www-bug@info.cern.ch, on the data itself to Peter Scott.

Tim Berners-Lee

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 11/28/92 04:09 GALIC WWW format now either takes an abstract from SLAC or goes to BBOARD

=====  
 Received: by SLACVM (Mailer R2.08 R208004) id 8765;  
 Sat, 28 Nov 92 04:09:38 PST  
 Date: Sat, 28 Nov 1992 03:55 -0800 (PST)  
 From: "H. Galic" <GALIC@SLACVM>  
 To: ADDIS@SLACVM  
 Subject: WWW format now either takes an abstract from SLAC or goes to BBOARD

The path depends on whether the abstract has been found in ABSTRACTS subfile. Please check in WWW with "FIN PPF 9249 (USING WWW)" Some of the hep-th abstracts in the result are not yet in ABSTRACTS, and the search is redirected to the hep-th bboard. Will prepare a brief instruction on how to use the readin format, so that Tina can begin adding new abstracts; you should allow her PPF account to make additions in the ABSTRACTS subfile. Cheers, Harv.

(A certain HEP search from CERN still uses a very old version of WWW procedure. Has Tonny not been able to trace the corresponding instruction?)

==:B:==

==:T:== 11/27/92 02:13 GALIC INSTALL on www disk didn't work

=====





WINTERS@SLACVM, GALIC@SLACVM, CAROLFEY@SLACVM, koellner@csa3.lbl.gov,
SUZANNE@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu,
SLAVKO@STANFORD

Subject: another browser

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTTP id 0441; Wed, 11 Nov 92 20:20:36 PST
Received: from forsythe.Stanford.EDU by SCS.SLAC.STANFORD.EDU with PMDF#10283;
Wed, 11 Nov 1992 20:20 PDT
Date: Wed, 11 Nov 92 20:19:21 PST
From: Slavko Manojlovich <Slavko@Forsythe.Stanford.EDU>
Subject: WWW at NJIT
To: addis@SLACVM.SLAC.Stanford.EDU
Message-id: <872FBC5DDEE16D65@SCS.SLAC.STANFORD.EDU>
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU

Louise:
Have you seen NJIT's implementation of WWW? TELNET to
EIES2.NJIT.EDU and login as WWW. They have taken it to a
higher level of user-friendliness.
Slavko

To: ADDIS@SLACVM.SLAC.STANFORD.EDU
==:B:==
==:T:== 11/17/92 07:57 ILSE @SLAC.ST WWW article for SCS Computing newsletter
=====
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTTP id 9071; Tue, 17 Nov 92 07:57:12 PST
Received: from DIRECTORY-DAEMON by SCS.SLAC.STANFORD.EDU with PMDF#10283; Tue,
17 Nov 1992 07:56 PDT
Received: from UNIXHUB.SLAC.Stanford.EDU by SCS.SLAC.STANFORD.EDU with
PMDF#10283; Tue, 17 Nov 1992 07:56 PDT
Received: by unixhub.SLAC.Stanford.EDU (4.1/SLAC 920508) from
janus.SLAC.Stanford.EDU id AA12474; Tue, 17 Nov 92 07:56:41 PST
Received: by janus.SLAC.Stanford.EDU (NX5.67c/NeXT-1.0+SLAC-911204) id AA19837;
Tue, 17 Nov 92 07:56:42 -0800
Received: by NeXT.Mailer (1.87.1.RR)
Received: by NeXT Mailer (1.87.1.RR)
Date: Tue, 17 Nov 92 07:56:42 -0800
From: ILSE@SLAC.STANFORD.EDU
Subject: WWW article for SCS Computing newsletter
To: addis@SLAC.STANFORD.EDU
Cc: jean@SLACVM.SLAC.Stanford.EDU
Message-id: <9211171556.AA12474@unixhub.SLAC.Stanford.EDU>
X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU

Hi, Will it still be feasible for you to give us an article (1-2
pages or about 600-1200 words without a graphic) on WWW by Dec. 1?
Thanks, Ilse

==:B:==
==:T:== 11/30/92 15:23:52 >GALIC WWW needs escape character to take care of \* and + etc.
=====
Date: Mon, 30 Nov 1992 15:18 -0800 (PST)
From: "Louise Addis" <ADDIS@SLACVM>
To: GALIC@SLACVM
Subject: WWW needs escape character to take care of \* and + etc.

Harv, We need to ask Tim B-L for an escape character for WWW
so that the reserved characters can be used in searching.

Are there any other problems that you've run into?

Cheers, -L
==:B:==

==:T:== 12/14/92 19:05:29 >BEBO variousW3 matters

=====  
Date: Mon, 14 Dec 1992 18:40 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: BEBO@SLACVM  
cc: galic@slacvm, tonyj@slacvm, winters@slacvm, slavko@stanford,  
Subject: variousW3 matters

Hi Bebo, I believe that PF03 and PF04 are reversed (in their functions) in the new WWW line browser on SLACVM. When I hit PF3 I back up and when I hit PF4 I quit.

Noticed that you put up some APSNEWS on the WWWTEST disk. Great! and I added this weeks just to see what was going on.

I wonder if we shouldn't be posting in reverse chronological order with the most recent at the top? That's how many folks like to see stuff...even though it is the other way round in NETNEWS (where you get to mark it off if you've already read it).

Do you think it will be possible to automate APSNEWS posting to W3?

We may also want to have a 'teaser' line with each date...maybe part of the first headline, like:

12/11/92 - EXTRAORDINARY \$100M GIFT TO SCIENTISTS...

The other small suggestion is that the naming convention for the files be AN921211 with the year first so they'll sort properly on the disk as the numbers build up....but that's not really terribly important.It's just great to have it there.

As soon as it gets stabilized, maybe APSNEWS ought to move up on the SLAC FRONT PAGE in the production version.

==:B:==

==:T:== 12/15/92 09:47 BEBO WWW and SPIRES

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 1701;  
Tue, 15 Dec 92 09:47:13 PST  
Date: Tue, 15 Dec 1992 09:47 -0800 (PST)  
From: "Bebo White" <BEBO@SLACVM>  
To: ADDIS@SLACVM, CRANE@SLACVM  
Subject: WWW and SPIRES

Forwarded-from: BEBO

FYI

- - - - Forwarded Text - - - -

From: "JANET WEBER : SYSTEM INTEGRATION SUPPORT"  
<JANETC@FNUSG>  
Subject: WWW and SPIRES  
To: bebo@slacvm  
Original\_To: JNET%"bebo@slacvm"  
Original\_cc: JANETC

Hi,

If you aren't the correct person to talk to - would you please forward this to whoever would be able to answer?? Thanks.

I am one of the WWW supporters here at Fermi. On our WWW home page we provide access to SPIRES. The folks here are delighted with the speed!! However, I recently received a request from a user that I need to pass along. The user says that WWW only provides access to HEP.NEW - which will satisfy 95% of the people, but he and some others would like to be able to access HEP.OLD also. Is this possible with WWW? The user would also like to be able to use the WWW SPIRES access to search on more than 1 author. Both of these requests deal with the www server.

Thanks for your time.

Janet

==:R:== Reply from ADDIS

=====  
Date: Tue, 15 Dec 1992 19:05 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM, CRANE@SLACVM

Subject: Re: WWW and SPIRES

In-Reply-To: BEBO@SLACVM -- 12/15/92 09:47

Hi Bebo, Thanks for forwarding the question from Fermilab...I had actually already answered via Paula Garrett their librarian who forwarded the same mail to me. I'm going to route all theFNAL WWW/SPIRES database answers thru Paula (PGARRETT@FNAL).

For your info, corrections to HEP go to LIBRARY@SLACVM, I'm going to add OLDHEP to the list of searchable databases, and anyone who thinks you can only search for one author at a time on WWW needs help from Paula (who is giving a user workshop tomorrow at Fermilab on searching in SPIRES-HEP).

Cheers, lxa

==:B:==

==:T:== 12/16/92 08:12:49 >WWWLIST Reminder WWW Mtg. today, Wed, 16 Dec, 1:30  
=====

Date: Wed, 16 Dec 1992 08:07 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, SUZANNE@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD

Subject: Reminder WWW Mtg. today, Wed, 16 Dec, 1:30

Agenda:

Demos & discussion of improvements (many)

Line-mode browser problems (a few)

Planning D Demo

==:B:==

==:T:== 12/22/92 03:06 timbl @nxoc01. CERN WWW service over Christmas shutdown  
=====

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 1255; Tue, 22 Dec 92 03:06:34 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Tue, 22 Dec 1992 03:06 PDT

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA15490; Tue, 22 Dec 1992 12:01:54 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA00331; Tue, 22 Dec 92 11:44:27 MET

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA15220; Tue, 22 Dec 1992 11:58:35 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA01063; Tue, 22 Dec 92 11:51:09 +0100

Received: by NeXT.Mailer (1.87.1)  
 Received: by NeXT Mailer (1.87.1)  
 Date: Tue, 22 Dec 92 11:51:09 +0100  
 From: Tim Berners-Lee <timbl@www3.CERN.CH>  
 Subject: CERN WWW service over Christmas shutdown  
 To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH  
 Reply-to: timbl@nxoc01.CERN.CH  
 Message-id: <9212221051.AA01063@www3.cern.ch>  
 X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

CERN has its traditional power-saving salary-saving shutdown over Christmas and the new year. During this time the WWW server on info.cern.ch should (I hope!) continue running and still be connected with the outside world. The basic web overviews by subject etc will therefore be available, as will be anonymous FTP and telnet services.

The computer center however and the servers in the ECP division will shut down, so some CERN-related information will be unavailable for all or part of the period from today to the 5th January. Please accept our apologies for such missing services.

A merry festive season and a productive 1993 to all our readers!

Tim Berners-Lee

---

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 01/06/93 09:31:40 >WWWLIST NO WWW mtg today, Wed 6 Jan 93

=====  
 Date: Wed, 06 Jan 1993 08:38 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM,  
 WINTERS@SLACVM, GALIC@SLACVM  
 cc: RCHAN@SLACVM, SUZANNE@SLACVM, ILSE@SLACVM, NIV@SLACVM,  
 jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD, AGO@SLACVM,  
 NIV@SLACVM, MFSOR@SLACVM  
 Subject: NO WWW mtg today, Wed 6 Jan 93

Pls hold open 13th & 20th for full mtg. and let me know ASAP if one of those dates is impossible for you (1:30 as usual).

==:B:==

==:T:== 01/06/93 11:17:58 >TONYJ WWW gateway to campus FOLIO

=====  
 Date: Wed, 06 Jan 1993 10:15 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: TONYJ@SLACVM  
 Subject: WWW gateway to campus FOLIO

Tony, I need to talk to you about the possibility of putting in a gateway to the campus FOLIO system via WWW...just a simple telnet to ELF1.STANFORD.EDU with instructions about how to logon. This is going to be important for a lot of people as the list of files accessible via FOLIO is getting BIG. It should also be accessible only from SLAC nodes if possible.

Burt Richter stopped by the library just before Christmas and incidently asked about his demo. I gave him a little preview and got a lot clearer picture of what his interests are. One thing he needs to see is the INSPEC database which is available via FOLIO and I'd like him to see it via the WWW front end. I've also subscribed to PINET and if my account comes thru soon, I'd like to be able to TELNET there too. He's really most interested in full text display of physics articles (journal quality) and interested in the problems (to some level).

Talk to you later, Cheers, Louise

==:B:==

==:T:== 01/06/93 11:35:49 >BEBO huum....

=====  
Date: Wed, 06 Jan 1993 11:29 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM

Subject: huum....

Well, when I go to SLAC (probably not til tomorrow) I'll check it out again from my X-terminal.

Maybe there's something funny going on.

Cheers, lxa

==:B:==

==:T:== 01/06/93 13:34 keith @synergy WWW

=====  
Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with  
BSMTP id 5847; Wed, 06 Jan 93 13:34:46 PST

Received: from synergy.ssc.gov by SLACVM.SLAC.STANFORD.EDU (IBM VM SMTP V2R1)  
with TCP; Wed, 06 Jan 93 13:34:45 PST

Received: by synergy.ssc.gov (AIX 3.1/UCB 5.61/4.03)  
id AA03449; Wed, 6 Jan 93 15:35:54 -0600

Date: Wed, 6 Jan 93 15:35:54 -0600

From: keith@synergy.ssc.gov (Keith Rich)

Message-Id: <9301062135.AA03449@synergy.ssc.gov>

To: addis@slacvm.slac.stanford.edu

Subject: WWW

Cc: keith@synergy.ssc.gov

Louise,

Sorry I missed you while I was out there over the holidays. I talked to Paul Kunz who showed off WWW accessing Spires. I think this is very interesting and I plan to find out more about it so I can use it here.

Keith

==:R:== Reply from ADDIS

=====  
Date: Wed, 06 Jan 1993 15:17 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: keith@synergy.ssc.gov

Subject: Re: WWW

In-Reply-To: keith@synergy.ssc.gov -- 01/06/93 13:34

DARN! I'm really disappointed that I wasn't around over the holidays and we didn't get to talk about WWW and other matters. Next time you get out this way, send me some e-mail and I'll be here...no matter what.

The absolute best browser for WWW (in my opinion) is one called MidasWWW which Tony Johnson (TONYJ@SLACVM) did. (TonyJ by the way, is on the GEM Collaboration). It runs under X-windows (Motif) ...maybe Paul demoed it for you as well as the regular NEXT browser which is nice but opens too many windows for comfort.

MidasWWW can be run under MAC-X ...and at SLAC can be accessed both from VMS and Unix.

It would be great if someone would get a good SSCL front page going...Pat Kreitz and Tom Kinney in the Library would be delighted to help, I'm sure.

Since WWW can be used to get to GOPHER, WAIS and some other systems, it makes a nice unified front end for a lot of kinds of information. Tony's test version has the beginnings of a graphics interface (shows beautiful weather maps in color and pictures of SLD experimenters).

Maybe I'll try and call you later in the week for a brief chat since I missed out last week. Are there any good times?

Happy New Year, LXA  
==:F:== Forward from ADDIS

=====  
Date: Wed, 06 Jan 1993 15:43 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: TONYJ@SLACVM, SLAVKO@STANFORD, KINNEYT@SSCVX1, PKREITZ@SSCVX1  
Subject: WWW

Forwarded-from: ADDIS

FYI, Keith Rich visited over the holidays...too bad I missed him...but anyway, he's interested in W3 and understands the Physics community pretty well...maybe this is your chance to get something going at the SSCL.

==:B:==  
==:T:== 01/06/93 11:19 BEBO WWW <--> VM NEWS

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 1961;  
Wed, 06 Jan 93 11:19:57 PST  
Date: Wed, 06 Jan 1993 11:18 -0800 (PST)  
From: "Bebo White" <BEBO@SLACVM>  
To: ADDIS@SLACVM  
Subject: WWW <--> VM NEWS

Louise,

I can't recreate the problem you described with either Midas or the VM browser.

However, the news server is having problems knowing what the last 50 items are...so more work is needed.

Bebo  
==:B:==  
==:T:== 01/07/93 11:14:02 >CRANE severe bugs in linemode browser - urgent urgent

=====  
Date: Thu, 07 Jan 1993 10:48 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: CRANE@SLACVM, WINTERS@SLACVM, BEBO@SLACVM, TONYJ@SLACVM  
cc: GALIC@SLACVM  
Subject: severe bugs in linemode browser - urgent urgent

As Harv Galic has pointed out to me, the new line mode browser is unusable when you choose 7 (other..) and try to hop around from database to database.

I think we either have to back it out or fix it right away.

Bebo, just choose 7 and then choose the books database. Do a search, like FIND AUTHOR PERL, then pf03, then try to go to something else...users will soon give up between the PF key labeling and the malfunction.

Doesn't look like we're ready for any kind of public announcement.

-L

==:B:==

==:T:== 01/10/93 23:06:29 >BEBO The new line browser is great!!!!

=====  
Date: Sun, 10 Jan 1993 22:43 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: BEBO@SLACVM  
Subject: The new line browser is great!!!!

Hi Bebo, Harv alerted me to the new version of the line browser... it works and seems sturdy.! You're certainly a man of action.

Is there any chance of reversing or renaming those two pesky PF keys? Is this something that can be fixed somehow locally? BACK and QUIT might do the trick. Or do we just need to think more positively and adapt?

Cheers, lxa

P.S. I mentioned to Eric that you were planning to look at the Midas-on-Sun problem...I hope that was ok.

Did you see anything at MacWorld about Common Ground and/or Adobe Acrobat for sharing disparate documents across platforms?

==:B:==

==:T:== 01/12/93 14:54:20 >WWWLIST WWWizard meeting, a week from Wed, 20 Jan 93, 1:30

=====  
Date: Tue, 12 Jan 1993 14:30 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, SUZANNE@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD  
Subject: WWWizard meeting, a week from Wed, 20 Jan 93, 1:30

The final schedule for the next WWWizard meeting is 20 Jan, Wed, 1:30.

It'll be in the usual sardine can.

Cheers, Louise

==:B:==

==:T:== 01/12/93 17:21:29 >AGO did you get the WWW Mac browser?

=====  
Date: Tue, 12 Jan 1993 17:19 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: AGO@SLACVM  
Subject: did you get the WWW Mac browser?

Hi Ago, Did the disk with the W3 Mac browser ever turn up? Bebo tells me that a new version is now in his hands...but needs some compilation. (He may have already found you.)

Cheers, Louise

==:B:==

==:T:== 01/14/93 14:20:26 >ADDIS Minutes of WWWizard Meeting, 16 Dec 92 (draft)

=====

Date: Thu, 14 Jan 1993 13:49 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM,  
WINTERS@SLACVM, GALIC@SLACVM

cc: RCHAN@SLACVM, ILSE@SLACVM,  
jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD,  
SUZANNE@SLACVM, VANI@SLACVM, KINNEYT@SSCVX1, DADE@SSCVX1, MFSOR@SLACVM,  
RENATA@SLACVM

Subject: Minutes of WWWizard Meeting, 16 Dec 92 (draft)

Please send additions and corrections to addis@slacvm before 18 Jan.

S L A C M E M O R A N D U M

11 January 1993

To: WWW Wizards + distribution

From: L. Addis

Subject: Minutes - WWW Wizards meeting of 16 Dec 1992

-----

Present: Addis, Ago, Bebo, Crane, Ilse, Rchan  
TonyJ, Slavko, Vani, Winters and others(?)

1. Bebo has installed the new version of line browser on SLACVM, which gives us a greatly improved interface with PF key control. PF7 & PF8 scroll back and forward in the traditional VM way.

Two problems:

- a. Labeling of PF03 and PF04 need clarification. PF03 says 'quit' but really means 'go back one'. PF04 says 'return, recall' but really means Quit W3.

Bebo will comment to TimBL (these should either be reversed or at least relabeled)

- b. Very buggy in certain circumstances when one tries to go back one step. Demoed to Bebo who will trace problem & report to CERN. It is quite reproducible and does not occur in Midas.

UPDATE: Bebo installed a newer version of the line browser which seems to have fixed the problems.  
(Thanks to Harv Galic for helping identify all the glitches.)

2. Current APS News (last 4 or 5) now available on WWW (TEST). Bebo is working on making this happen weekly as part of bringing APS news to SLAC Netnews (Billie Bennett does this).

Datasets have been renamed to format AN921204, i.e. AN yr  
mon day



Update: So far it hasn't happened automatically yet. But we're eager to move it to the production version. Maybe by next mtg?

3. Ilse reported that Renata Dart will install version 0.14 of the W3 browser for the NeXt before the end of January. (Current NeXt version is 0.13.)
4. Addis reported that there's now a test format which displays HEP references with html markup. Looks great on the Midas Browser. Abstracts and full text papers are clickable. (Thanks to TonyJ for showing us how to do the html markup and Harv Galic for writing the SPIRES format that does it.)

To try this out on Midas, click on HEP publications and do a search like FIND BULL HEP TH AND DATE JAN 93 (USING WWWG.TEST This, or something similar will soon become the WWW default for HEP.

5. Several publicity projects are in the hopper:
  - a. TonyJ is preparing a message to all attendees at the W3 seminar last year. All comments should be returned to TonyJ so final draft can be ok'd at next meeting and the message e-mailed in Jan 93.
  - b. A W3 article for the new SCS News has been requested. TonyJ's write-up will form basis.  
  
Update: article is in press.
  - c. LXA has prepared draft of TIP article (copy to Ilse also in case it has useful bits for SCS News article.
  - d. Demos are in the queue for Theory Seminar, Leith, and Richter. Plans should be made in January.
  - e. Flyer on W3 at SLAC needs preparation (one sheet foldover) for distribution from service desk and library.
6. Winters suggested adding VM NEWS to front page since it's an easy way to get general news to a large population (often more than 300 people logged onto SLACVM). Sounded fine to group. Bebo and Winters will do it in WWWTEST. UPDATE: it's there
7. Bebo brought test version of Mac Browser which appears a little rough. Ago will take a look at it.  
  
update: Bebo now has a new version and will pass to Ago.
8. Bebo is giving a SHARE talk on W3 in Feb & plans in meantime to make a video of the MIDAS screens for purpose of talks in a 'system down' or no network environment.
9. TonyJ installed public release 1.0 + 'fix' .001 of the MidasWWW browser (fixes the CERN link problem). He had over 100 ports of the software in the first week including Apple, H-P, etc. He has not yet released his test version which

views TIFF graphics. (He demoed weather maps and photos of certain SLD collaborators.)

10. The WEB command now works on all line command platforms, VMS, SLACVM, and UNIXHUB.
11. SPICELL is now (gratefully) dead and WWW listens on two sockets now. This fixes the problem of WWW links to old html files on SPICELL. We now only need maintain code on the WWW account.
12. TonyJ raised the question of what to do with all the many files on SPICELL which Terry Hung used in original compilations. Bebo & Winters will organize code for maintenance and put it someplace. Lxa will reclaim spicell.
13. TonyJ visited the SSCL last week. They are still somewhat unsettled & he didn't immediately find a place to do a Midas installation. He expects, however, to be able to do a NeXT installation from here shortly.

Update: Keith Rich visited Paul Kunz here recently and is now very interested in using the Web at the SSCL. (He's been doing the specs for their Control System.)

TonyJ also did a demo for the BES group. Believes he could install a feasibility demo to show a postscript document (i.e. a couple of SLAC preprints).

14. Question was raised about where we should be posting our messages to each other. Bebo will start up an archiving listser so we don't need to maintain our own names files. We may also be ready soon to post selected files to a netnews group.

==:B:==

==:T:== 01/14/93 02:25 timbl @nxoc01. Server maintainers please note

```

=====
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTTP id 7583; Thu, 14 Jan 93 02:25:41 PST
Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 14
Jan 1993 02:25 PDT
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA18283; Thu, 14 Jan 1993
11:22:47 +0100
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail
5.52)/NeXT-2.0) id AA10435; Thu, 14 Jan 93 11:05:28 MET
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA18139; Thu, 14 Jan 1993
11:20:39 +0100
Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA00336; Thu, 14 Jan 93 11:19:47
+0100
Received: by NeXT.Mailer (1.87.1)
Received: by NeXT Mailer (1.87.1)
Date: Thu, 14 Jan 93 11:19:47 +0100
From: Tim Berners-Lee <timbl@www3.CERN.CH>
Subject: Server maintainers please note
To: www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH
Reply-to: timbl@nxoc01.CERN.CH
Message-id: <9301141019.AA00336@www3.cern.ch>
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

```

An addition to the server etiquette rules in  
<http://info.cern.ch/hypertext/WWW/Provider/Etiquette.html>

says that for any internet host running a WWW server there should be a mail alias

webmaster@hostname

to which problems with the server can be reported.

Remember also that it is wise to set up a domainname alias for your server: rather than referring to it as mysun4.cc.fred.edu make an alias for example

www.fred.edu

so that if you change machines, the alias can be switched to the new server.

Thanks for your time, keep up the good work!

Tim BL

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Tim Berners-Lee	timbl@info.cern.ch
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1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 01/20/93 08:16:29 >WWWLIST WWWizards meeting today, Wed. 20 Jan, 1:30, usual place

=====

Date: Wed, 20 Jan 1993 08:07 -0800 (PST)

From: "Louise Addis" <ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD, SØZANNE@SLACVM, VANI@SLACVM, MFSOR@SLACVM, RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu

Subject: WWWizards meeting today, Wed. 20 Jan, 1:30, usual place

Agenda:

Progress reports  
Selectivity (i.e., SLAC only) issues  
What to move from 'test' to 'SLAC Front Page'?

==:B:==

==:T:== 01/20/93 10:25:08 >MFSOR mtg www

=====

Date: Wed, 20 Jan 1993 09:52 -0800 (PST)

From: "Louise Addis" <ADDIS@SLACVM>

To: MFSOR@SLACVM

Subject: mtg www

The meeting will be an hour or less. You may want to simply come by at 1:30 if you can, I'll introduce you to the players and you can mention your possible interest in putting some info on the WWW test front page. We'll discuss it briefly and then you can leave ... or stay for the progress reports if you want. These tend to be working meetings...and sometimes fairly technical.

I like to minimize meetings and keep them on track. It probably isn't worth your time (which is I know in very short supply right now) to do more than the above.

Cheers, Louise

==:B:==

==:T:== 01/21/93 17:41:04 >JEAN www article

=====  
 Date: Thu, 21 Jan 1993 17:39 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: JEAN@SLACVM  
 Subject: www article

Hi Jean, Probably Tony will mention this to you...but  
 George Crane's name should be added to the list of Wizards.  
 Looks nice by the way.

Cheers, -L

==:B:==

==:T:== 01/12/93 12:10 TONYJ @SCS.SLA Re: WWW Workshop -- Call for interest?

=====  
 Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08  
 R208004) with BSMTMP id 7871; Tue, 12 Jan 93 12:10:31 PST  
 Date: Tue, 12 Jan 1993 12:10 PDT  
 From: "Tony Johnson (415) 926 2278" <TONYJ@SCS.SLAC.STANFORD.EDU>  
 Subject: Re: WWW Workshop -- Call for interest?  
 To: timbl@nxoc01.CERN.CH  
 Cc: addis@SLACVM.SLAC.Stanford.EDU  
 Message-id: <FB05D202E0809BB5@SCS.SLAC.STANFORD.EDU>  
 X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU  
 X-VMS-To: IN%"timbl@nxoc01.CERN.CH"  
 X-VMS-Cc: TONYJ, in%"addis@slacvm"

Hi Tim, I think the idea of having a workshop on WWW is an excellent idea. I  
 would certainly be interested in attending, and possibly some other SLAC  
 people would to. As always the problem would be getting funding for foreign  
 travel, but that is probaly soluable.

Tony

==:B:==

==:T:== 01/11/93 14:17 WWW-L-Re @SLACVM. Your subscription to list WWW-L

=====  
 Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08  
 R208004) with BSMTMP id 1971; Mon, 11 Jan 93 14:17:50 PST  
 Received: from DIRECTORY-DAEMON by SCS.SLAC.STANFORD.EDU with PMDF#10283; Mon,  
 11 Jan 1993 14:17 PDT  
 Received: from SLACVM.SLAC.STANFORD.EDU (MAILER@SLACVM) by  
 SCS.SLAC.STANFORD.EDU with PMDF#10283; Mon, 11 Jan 1993 14:16 PDT  
 Received: from SLACVM.BITNET by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004)  
 with BSMTMP id 1877; Mon, 11 Jan 93 14:14:40 PST  
 Date: Mon, 11 Jan 1993 14:14:41 -0800  
 From: Revised List Processor <LISTSERV@SLACVM.SLAC.Stanford.EDU> (1.7e)  
 Subject: Your subscription to list WWW-L  
 To: Louise Addis <addis@SLAC.STANFORD.EDU>  
 Cc: Bebo White <BEBO@SLACVM.SLAC.Stanford.EDU>  
 Reply-to: WWW-L-Request@SLACVM.SLAC.Stanford.EDU  
 Message-id: <43693B6B90E05412@SCS.SLAC.STANFORD.EDU>  
 X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU  
 X-LSV-ListID: WWW-L

Dear networker,

As of Monday, January the 11th of 1993, you have been added to the LISTSERV  
 distribution list WWW-L (SLAC WorldWideWeb (WWW) Discussion List) by Bebo White  
 <BEBO@SLACVM.BITNET>.

Note: your distribution options have been defaulted as per the "SET WWW-L  
 REPRO" command.

You may leave the list at any time by sending a "SIGNOFF WWW-L" command to LISTSERV@SLACVM.BITNET (or LISTSERV@SLACVM.SLAC.STANFORD.EDU). Please note that this command must NOT be sent to the list address (WWW-L@SLACVM) but to the LISTSERV address (LISTSERV@SLACVM).

The amount of acknowledgement you wish to receive from this list upon completion of a mailing operation can be changed by means of a "SET WWW-L option" command, where "option" may be either "ACK" (mail acknowledgement), "MSGACK" (interactive messages only) or "NOACK".

Please note that it is presently possible for other people to determine that you are signed up to the list through the use of the "REVIEW" command, which returns the network address and name of all the subscribers. If you do not wish your name to be available to others in this fashion, just issue a "SET WWW-L CONCEAL" command.

More information on LISTSERV commands can be found in the LISTSERV reference card, which you can retrieve by sending an "INFO REFCARD" command to LISTSERV@SLACVM.BITNET (or LISTSERV@SLACVM.SLAC.STANFORD.EDU).

Virtually,

The LISTSERV management

==:B:==

==:T:== 01/21/93 20:34:46 >WWWLIST Excellent paper on 'What is an Electronic Journal?'

=====  
Date: Thu, 21 Jan 1993 20:30 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

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Subject: Excellent paper on 'What is an Electronic Journal?'

FYI, I'm forwarding this paper which is excellent. (needs some mention of W3 but that can be remedied.)

Received: from cmsa.Berkeley.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 5919; Thu, 21 Jan 93 14:23:27 PST

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Reply-To: John Franks <john@MATH.NWU.EDU>

Sender: SLA-PAM Special Libraries Association-Physics Astronomy Mathematics <SLA-PAM@UKCC.BITNET>

From: John Franks <john@MATH.NWU.EDU>

Subject: What is an electronic journal?

X-To: sla-pam@ukcc.bitnet

To: Louise Addis <ADDIS@SLACVM.BITNET>

At the suggestion of Carol Hutchins, I am posting the following white paper to this list. Any comments would be welcome.

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-----  
What is an Electronic Journal?

by John Franks  
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January 1993

There is considerable enthusiasm among scholars for creating purely electronic journals which can be distributed via the internet. However, in discussing this with colleagues and other interested parties, I find that there are widely varying conceptions, many of them conflicting, of what should constitute an electronic journal. Most scholars, when asked, are supportive of the idea of such a journal. But, often they have only a vague sense of what it should mean -- sometimes little more than the hope that like electronic mail, articles which interest them will magically appear on their desktop computer.

In this article I would like to explore some alternative possibilities for an electronic research journal and comment on the strengths and weaknesses of these alternatives. My focus will be a narrow one -- restricted to a scholarly research periodical, marketed primarily to research libraries. In particular, I want only to address a publication whose authors and editors are unpaid. The addition of royalties paid to author or editor could have a major effect on the issues considered here. Likewise, the electronic publication of a book, even one with a narrow scholarly audience, might entail quite different considerations. Moreover, I want only to address the possibilities for journals distributed via the internet, rather than say, publication in CD-Rom or magnetic tape formats.

#### WHY DO WE EVEN NEED A JOURNAL?

The first question for an author in the internet arena is why publish, in the traditional sense, at all? Why not simply write articles and make them freely available on the internet to anyone who is interested? After all, there is no direct monetary incentive for the author.

In fact, journals are not an absolute necessity. Making articles freely available via the internet is one way to publish electronically and some authors will choose this method. I would call this form of electronic publishing the "vanity press model." Like all the models of electronic publishing considered here it has some advantages and some disadvantages and we will try to enumerate both.

#### The Vanity Press Model

First, let's look at the drawbacks, and answer the question why have a journal at all. There are at least three important functions which a journal can provide beyond mere distribution of text.

The first of these is certification. A journal has an editor who chooses a referee or referees to read a submission and attest to its scholarly worthiness. The editor also maintains quality control in non-content areas such as language and presentation (usually with the aid of a copy editor). Different journals have different scholarly standards. This process provides a peer review mechanism for certifying the quality of scholarly work. Academic institutions rely on this process when judging the merits of an individual for promotion or tenure. While an author may have no direct monetary incentive to publish in a journal, the indirect one can be significant.

The second important function is archiving. An author would like to know that twenty or thirty years from now, perhaps after she has retired, her work will still be available to other researchers. Additionally, scholars in the field would like to have an authoritative version of the author's text together with, at least, a definitive date of its creation. Traditionally, archiving is a function not provided

by the journal, but by libraries which purchase the journal and maintain its preservation.

The third function which a journal offers is marketing. If I simply write an article and make it available from my personal or departmental computer to anyone on the internet, how will other scholars know of its existence? By contrast, if I publish in a recognized journal, other scholars are much more likely to be aware of my work. This might be because the journal is in their library and they glance at its contents on a regular basis, or because they consult a second order table of contents such as Current Contents.

These three functions, certification, archiving, and marketing constitute the primary value added for the author who publishes in a journal rather than using the "vanity press" model. As we discuss other models of electronic publishing we will want to see how well they all perform these author support functions.

It is equally important to ask how well an electronic journal supports subscribers. This is the area where there are the greatest potential advantages over traditional paper journals. Indeed, if an electronic journal is not substantially better or cheaper than a traditional journal, its success will be limited. And if it offers less functionality than a traditional journal it is difficult to see how it will be able to survive in the long run. At an absolute minimum, it must be possible for the subscriber to an electronic journal to print a hard copy of an article of interest, which is of the same quality as a photocopy of an article in a printed journal. Simply viewing an article on a computer screen will not be acceptable, nor will a printed copy in a markup language.

Beyond this minimum, two of the most important criteria by which we should judge different models of electronic publishing are their ease of access and the quality of their user interface. These are the areas where an electronic format can surpass the functionality of a traditional journal. It might, for example, allow the scholar to browse and search electronically on his desktop computer before printing a copy, on his own printer, for detailed study.

Despite its seeming weakness in the author support functions, the vanity press model does quite well in these scholar support areas. Since the scholar downloads the electronic text to his personal computer, he has complete freedom and flexibility in the choice of how he views it, searches it, or prints it.

Another big plus for the vanity press model is speed. An article can be made available to the scholarly public, literally the instant it is completed. This is such an important asset that many authors already use this model, in addition to publishing in a traditional journal. This practice, of posting an article to a so-called "preprint data base" can take different forms. Typically, an author submits an abstract of his work to a moderator who periodically distributes a collection of abstracts, together with information on obtaining the full text of articles, to an electronic mailing list of interested scholars. In all cases of which I am aware, anyone can join the mailing list without charge and there is little or no editorial control by the moderator (i.e. the certification function is not provided). The full text may be kept centrally by the moderator or supplied by the author either through anonymous ftp (see glossary) or, more commonly, by electronic mail.

There are several variants of this process and there will surely be evolutionary changes in the future. Already some groups in physics are making preprints available via gopher (see glossary). This provides a much better mechanism since it provides a number of features not

available through the e-mail process. The most important of these include:

- \* a simpler, easy-to-use user interface
- \* on-line browsing of abstracts or full text,
- \* keyword searching of abstracts or full text,
- \* immediate downloading of desired articles.

If only to meet the need of preprint distribution, the vanity press model of electronic publishing will be with us for the foreseeable future, and its use is likely to expand greatly. There is sufficient interest that the ease of use and functionality of this model will likely continue to improve.

The absence of the marketing function in this model is not as big a problem as it might initially seem. Also its significance as a drawback is diminishing and will continue to do so. The abstract distribution mailing lists and other preprint distribution channels, provide an author with an increasingly effective way to provide electronic visibility for his work. It seems likely that some authors who are indifferent to (or actively resent) the certification function of journals, and are willing to forego the the archiving function, will opt to publish some of their work only via the vanity press model.

It is worth noting, by the way, that the practice described above of "double publishing," -- first electronically, using the vanity press model and then traditionally through an established journal -- may generate some controversy in the near future. Publishers would like the electronic availability of preprints to cease as soon as an article appears. Some publishers, in their copyright transfer agreement, explicitly deny the author the right to make his work available on an electronic data base [1]. I know of no instances of this restriction being enforced, however, and current practice seems to be for electronic versions of articles to be available indefinitely.

#### WHAT SHOULD A SUBSCRIBER TO AN ELECTRONIC JOURNAL ACTUALLY GET?

Surprisingly many people who are strong proponents of creating an electronic journal haven't thought a great deal about the answer to this question. Those who have seem to offer a wide array of very divergent answers. More than anything else it is the answer to this question which distinguishes the different models of electronic publishing. As we characterize some of the different visions of what should constitute an electronic journal, it is useful to keep the varying answers to this question in mind.

#### The Data Base Model

The second model of electronic publishing (and the first which involves what we could really call a journal) is the "data base model." In this model all articles reside on a centralized data base maintained by the publisher and what the subscriber gets is the right to access that data base and probably use search software on the central computer to locate and download articles of interest to him or her. This is roughly the way the commercial data services like Lexis/Nexis or Dialog work.

In practice this might work as follows for the scholar wishing to make use of the journal. The subscription to the journal would be purchased by the library of the scholar's institution. The library would acquire a password allowing access to the journal data base, and would be responsible for protecting it. To use the journal the scholar would typically schedule a time slot with the library and go the library at the appointed time where a librarian who has access to the password



would login to the central data base. When the scholar finds an article of interest, it is probable (though not certain) that he would be permitted to make a single hard copy of it for personal use. Because of concern about unauthorized redistribution it is unlikely that the publisher would allow an article to be downloaded in electronic format.

The publisher might only charge the library a fixed annual fee for subscription, but current practice suggests that some publishers are likely to impose additional charges. For example, cost may be a function of the maximum number of simultaneous users. Some publishers will also likely want to charge extra for the use of their search software and perhaps also for connect time. This may not be entirely negative. If the price of a journal depends on the frequency of its use then libraries would have to pay less for access to infrequently used journals. Moreover, publishers of several journals might well offer package deals enabling libraries greater access to journal material at less cost.

How well does this model meet our three author support needs of certification, archiving and marketing? Certification and marketing would likely be quite comparable to a traditional paper journal, but archiving would be dramatically different. Since the library does not maintain a copy of the text, it has no archival function in this model. There are significant trade offs here, which are difficult to evaluate. On the plus side, if a library starts subscribing to such a journal they presumably have immediate access to all past issues (though publishers may want to charge extra for this). On the other hand, if a library cancels its subscription to such a journal it loses its access to all issues including those which appeared during the time it was a subscriber.

More importantly, however, if a publisher should go out of business it is not clear who, if anyone, would assume the archival responsibility. This appears to be a major weakness in the archiving function for this model.

This model is also quite weak in the scholar support criteria: ease of use and quality of user interface. It's functionality is roughly comparable to that of a traditional paper journal and almost identical to a journal which is traditionally marketed but published only on CD-Rom. This model realizes very few of the potential electronic journal advantages, which have sparked the interest of scholars. Most noticeably the scholar must still physically go to the library and with the aid of a librarian produce a copy for personal use (assuming this is possible). In some ways the functionality of this model is less than that of a traditional paper journal.

#### The Software Model

One of the most miraculous technological achievements of this century is the development of economically important goods which are essentially infinitely reproducible at negligible cost. The miracle of the loaves and fishes pales by comparison to the ease with which anyone with a personal computer can duplicate either software or electronic documents, or someone with a digital tape recorder can duplicate an artistic performance. It must be one of the greatest ironies of our age that this capability is less often viewed as a boon to mankind than as an enormous liability to the publication of music, or software, or even scholarly research. By now we are all familiar with the downside of this technological miracle: unauthorized reproduction of intellectual property deprives its creator of the fruits of his labor. If the creator has no incentive to create he will not do so. (For a fascinating contrarian view of this subject see [2]).

Given the similarities in the nature of this problem for electronic publishing and software publishing, it is not surprising that one vision of an electronic journal seeks to leverage the techniques used in software publishing.

What the subscriber gets in the "software model" is a piece of software. It should run on a networked personal computer or workstation and probably be available in the several standard flavors of such devices. Other than the addition of this software this model is quite similar to the data base model. Here's how it might work.

A library or individual subscribes and receives in exchange a floppy disk in the desired flavor. When the software is run on an internet connected computer it connects to the data base on the journal's central computer. The user can then perform searches, download etc., but all downloaded materials will be sent in a proprietary encrypted form which the software can decrypt and display to the user. There is no need for a password, since someone who is not in possession of a currently valid copy of the software cannot decrypt the text. The software might, or might not, allow the user to print a copy of a text document for personal use (it would be technically difficult to allow this while disallowing the creation of an electronic copy of the document). The software would have an expiration date which at each use would be compared with the current date on the central server. The problem of unauthorized access to the journal is reduced to the problem of preventing the unauthorized reproduction of the software (a previously addressed if not totally solved problem).

Since this is really a higher tech version of the data base model it is comparable to that model in meeting the certification, archiving and marketing needs of the author. In particular, it shares the major archiving weakness noted above. On the other hand in terms of functionality for the journal reader it is potentially an improvement. For example, it is possible that the scholar's library could negotiate a site license for the software or perhaps a floating license (see glossary). In this way the software could run on the scholar's personal computer and display text there, even though the only subscription is through the library.

#### The Subnet Model

The next model of electronic publishing may be the most commonly used commercially as of today, but it is not as yet used for scholarly journals. Instead it is currently used primarily for electronic journalism. Here is an example of how it works.

My university subscribes to a daily news service called ClariNet which provides all UPI syndicated articles. It consists of an enormous amount of material, including not only world, national and regional news (from all regions), but also sports, and columns. There are several hundred newspaper length articles daily. The university is licensed to make this material freely available only to members of the university community.

It is distributed using software which also simultaneously distributes USENET (see glossary) articles. This software, like all client/server software (see glossary), splits the distribution function into two parts. All the text resides on a central server, but a server central to my university -- the archiving function now resides with us. This central server provides the articles via a standard protocol to "client" programs running on a variety of platforms. These include networked personal computers and workstations, microcomputers in publicly available labs, and larger computers designed to provide dial up access to electronic mail and other network services for faculty and students. The protocol used is called the Network News Transfer

Protocol, (NNTP), and the software for both servers and clients is readily available without cost. Surprisingly, it seems that, on average, this software is of higher quality and better supported than most commercial software.

The restriction that the ClariNet information be distributed only locally is enforced by the server checking the IP address of the computer running the client software. The IP address is that strangely formatted number, like 129.105.123.456, which is associated with a networked computer and provides the basis for routing network traffic. (IP stands for Internet Protocol). This number has a hierarchical structure. For example, all IP addresses at my institution begin with the two triples of digits 129.105. This means the the news server software can simply deny access to any client whose IP address does not begin with this sequence. In other words, the service is offered to anyone on our university 'IP subnet.' There are a variety of different software 'clients' for this server. These are software packages designed to run on a particular platform (e.g. Mac or IBM PC). They allow the user to browse the available documents on the server and present selected articles to the user for reading, downloading or printing. It is the responsibility of the client software, not the server, to deal with any display idiosyncrasies of the the user's computer and to take advantage of any of its features.

The license granted my university permits us to archive these documents, but, we do not. Individuals have the right to make copies, electronic or printed, for their personal use. Protection against unauthorized use is afforded by copyright.

The subnet for my university is divided into further subnets by the additional digits in the IP address. For example, appropriately specifying the next three digits designates all those networked computers in my academic department. And, of course, specifying all twelve digits (usually) uniquely determines a single computer. This makes it equally feasible for a publisher to provide access to everyone who has access to a computer on my departmental subnet, or to everyone who has access to an individual computer.

The particular client/server software and the NNTP protocol used for news articles is not appropriate for a scholarly journal, but there are several alternatives which are generally available without cost. In particular, the National Science Foundation has funded the Clearing House for Networked Information Discovery and Retrieval (CNIDR), which will develop and support client/server software using the ISO standard protocol for electronic text known as Z39.50 (see glossary). There has also been substantial development of software appropriate for this use by Universities wanting to create campus wide information servers. Most notable in this category is the gopher project.

There are many advantages to a scholarly journal distributed in a way similar to this. The utility to the scholar is much greater when he or she has direct access to documents. This model would rank quite high in the scholar support criteria of ease of access and quality of user interface. If a journal is made available through a standard protocol, the user should have substantial choice about the interface which he uses to view or download the data. I routinely use three different clients to read the UPI news described above, the choice depending on whether I am using my personal computer at home, or a workstation in my office. This kind of flexibility is not likely to be possible with the software or data base models described above.

The mechanism used by gopher or NNTP servers for restricting access to to certain subnets is much simpler than a password scheme and cheaper to implement. It is very much cheaper and simpler to maintain than a model where the publisher must create and support all client software.

There are substantial economies for the publisher who uses standard software supported by university computing organizations or organizations like CNIDR. It may seem surprising, but the quality of the client/server software supporting standard protocols and available without cost is much higher than what a publisher is likely to develop and generally of at least as high quality as the average of mass market commercial software. The level of support for such software is commensurately high.

In the subnet model the publishers flexibility in charging is somewhat limited. Subscriptions can be offered to universities, departments, or individuals, but since the text is now archived by someone other than the publisher, it is no longer possible to charge for searching or connect time.

#### The Subsidized Model

The three electronic journal models described so far, the data base, the software, and the subnet, differ primarily in the extent and method of their efforts to \*prevent\* the contents of an electronic journal from being read by those who have not paid for it. In the first two of these models the cost of these efforts will represent a substantial fraction of the cost of publishing the journal. It is not inconceivable that the cost of restricting access to the journal will represent a majority of production costs. These costs, of course, will be passed on to the subscriber, but there is another less tangible cost for the subscriber which may be more significant. Experience with the publishing of software has shown that attempts to prevent unauthorized use, make the use much harder for the authorized user. This is true to such an extent that many publishers have abandoned software copy protection, in response to user demand, and rely instead only on the protection afforded by copyright. It is quite possible that the inconvenience resulting from schemes to protect electronic journals will be even more obtrusive than in software publishing. In particular, any scheme which requires the user to physically go to a library and perhaps to enlist the aid of a librarian, or to login and supply a password \*each time\* a journal is consulted is unlikely to find favor among subscribers.

All this is especially ironic since the authors and editor derive no benefit from the attempts to restrict access. On the contrary, the the best interests of the authors and editor are served by the widest possible distribution (even to non-subscribers).

These considerations lead naturally to the consideration of alternative methods of funding electronic journal production, which would permit free distribution to any interested user. Electronic journals currently in existence are mostly of this type, though, as yet, only a few could be considered true scholarly journals as opposed to newsletters.

A subsidized journal which provides a good example from the point of view of technical production and distribution, is EFFector Online, the newsletter of the Electronic Frontier Foundation [3]. This publication, which appears approximately monthly, is available to any interested party through at least four different electronic protocols. As issues appear they are posted to the USENET system. In addition they are made available for anonymous ftp, they are made available via a gopher server and they are indexed and available to WAIS clients (see glossary). This shotgun approach to distribution meets the subscriber needs of easy access and quality user interface better than any other electronic publication of which I am aware.

Not all of these distribution channels would be appropriate for a scholarly journal, but until such time as a standard emerges for browsing and downloading electronic documents, it is a wise choice to

make documents available via a variety of mechanisms. The cost of duplicating distribution protocols is not high, and is far outweighed by the benefits to users.

A second electronic publication worthy of mention in this category is the Ulam Quarterly. This is a refereed mathematics journal provided primarily in an electronic format. Issues of the journal are available by anonymous ftp and are "offered without charge, courtesy of Palm Beach Atlantic College Mathematics Department with support from the University of Florida.[4]" This provides an example of a journal in this category where certification is handled in the traditional manner. At present this journal is electronically archived at two sites and marketing is minimal.

Who might underwrite the costs of electronically publishing a journal if there are no subscription revenues? There are a number of possibilities. A professional society might sponsor such a journal and pay for it out of members' dues. Costs might be provided, at least in part, by government grants. A journal might be sponsored by a University, or even a single academic department, as in the case of the Ulam Quarterly. An important factor is that with effectively free distribution via the internet, and the fact that authors and editors are not paid, the cost of producing an electronic journal can be quite modest.

AMONG THESE MODELS WHICH WILL EMERGE AS THE DOMINANT ONE?

This is a difficult question to answer. It is not clear what direction commercial publishers will take. At the moment they seem generally conservative and uninterested in innovating. But, in addition to publishers, two other groups, scholars and librarians, will strongly influence the development of electronic journals.

It is in the interest of scholars, both as producers and consumers of journal articles, to have the widest possible distribution with the fewest encumbrances. While a scholar's strongest motivation in selecting a journal for his work will likely be to place it in the most prestigious journal which will accept it, it seems likely that other factors being equal he or she will opt to publish in a subsidized journal where the article's exposure is likely to be greater.

While the interests of librarians may overlap with those of scholars, they do not coincide. A key issue is the state of libraries' readiness and willingness to archive electronic journals. On the one hand librarians have little desire to become computer center managers. On the other hand they understand that if they only license access to information that is owned by a publisher then their role as librarian is diminished. They become little more than a conduit to the publisher for University funds. For a library to own electronic materials it must archive them. This in turn requires computing facilities and new expertise.

It is important to understand that the attitudes of many library staff members towards electronic publishing, or computing in general, are influenced by their experience and expertise with the software and computers they use for Online Public Access Catalogs (OPACs). These are typically commercial software systems like NOTIS, which were designed (and often run on computers which were designed) in an era before personal computers and workstations were widely used.

It is likely that among many librarians there is still an expectation that systems like NOTIS and the computers on which they run can be relevant to providing online access to archived electronic journals. In my opinion, there is very little chance that this expectation can be realized. Librarians have already come to realize their traditional

OPAC platform cannot provide access to information in CD-Rom format and that to provide this access it is necessary to acquire separate computers and even separate local area networks.

Access to electronic journals, provided using modern protocols, will likewise require new computing facilities and new expertise. It is not completely impossible to provide access using the old software and/or hardware, but it will be much less cost effective to do so. Moreover, the quality of service will be so low that users will find it unacceptable when compared with similar services provided on modern computers. It may be possible to teach an old dog new tricks, but it is very much cheaper to buy a new dog.

Of course libraries will make the transition. But it will likely take time and in the short run libraries will be ill equipped to archive electronic journals and provide their patrons with access to them. This lack is even more dramatic for materials which are more complicated than ASCII text. For example, in mathematics and some sciences, it is very common for journal articles to be created in the TeX text formatting language. The Ulam Quarterly provides its users with articles in two formats -- the TeX ``source'' which is what the author prepares, and the Postscript output which is obtained from processing that source, and is suitable for sending to Postscript capable printers. Almost no libraries today are prepared to deal constructively with TeX source. And relatively few are prepared to handle Postscript on a substantial scale.

All this, may, for the short term, give libraries a reason to prefer the data base or software models described above, because these models will require the least new computer hardware and expertise. On the other hand, there are strong countervailing forces. There is a desire, I think, among librarians to continue their role as archivers. They are likely to be willing to acquire the new skills necessary for this purpose. This argues for an electronic journal model which permits librarians this role. Likewise, current intense budget pressures should make the subsidized model popular among librarians.

This article is, of course, highly speculative. The track record of those who try to predict the course of developments in the use of computers is rather poor. Nevertheless, for those of us thinking about the development of new electronic journals, choices have to be made now. It is my hope that this article can clarify the array of possibilities which lie before us.

#### GLOSSARY

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anonymous ftp: (see ftp)

client/server software:

Software whose use involves two computers connected on a network -- a ``server'', on which some information physically resides, and a ``client'' which provides a user interface and requests information from the server. The advantage of this scheme is that the server needs no information about the user's interface. The client and server communicate via a specially designed protocol. Thus a single server can communicate with users of many very different kinds of computers without knowing anything about the screen or terminal characteristics of those computers. It is the responsibility of the client (running on the user's computer) to know about the display characteristics of the user's interface and to supply the information in a way compatible with them. See (\\it gopher) for an example.

floating license:

A client/server mechanism for licensing software for use on computers on a network. If N licenses are purchased for use on a network with many more than N computers, the first N client computers who want to use it are permitted to do so. Subsequent requests are denied until fewer than N copies of the software are in use. This has the advantage of making it possible to use the software on a very large number of computers (though not simultaneously) while purchasing a much smaller number of licenses.

ftp:

File transfer protocol. A standard protocol for transferring files between computers on the internet. Normally, it requires the user to have an account on both computers. However, it provides a mechanism called (\\it anonymous ftp) which allows the owner of a file on one computer to make it freely available for copying by anyone on the network. Most ftp clients have no capability of viewing or browsing the files they transfer.

gopher:

The most widely used electronic information delivery system (not counting USENET which is really a conferencing system) is called Gopher. Initial development on gopher was done at the University of Minnesota (whence its name), but important parts have been developed at Illinois, Indiana, Rice, Stanford, Utah, and elsewhere. Gopher is a client/server based distributed information delivery system. (see (\\it client/server)). At present there are gopher clients for the Apple Macintosh, IBM PC, IBM mainframe (CMS), NeXT, Dec VMS, Unix (curses), and X-Windows (including Sun Openwindows). All the client and server software is freely available without cost. A unique feature of this software is the ability to make links from one server to another so it appears to the user that the contents of the second server is a subset of the hierarchy of the first. Currently the NSF and NIH run gopher servers as one means of online access to their public documents. Several hundred colleges and universities use this software as the basis of campus wide information servers.

NNTP:

Network News Transfer Protocol -- the protocol used for transferring text on the USENET conferencing system. It has facilities for transmitting text documents between servers and between servers and clients. (see USENET)

USENET:

This is a large conferencing system with a distributed data base which exists on literally thousands of 'servers' world wide. It contains 'articles' in various 'groups' organized by subject. There are currently in excess of 2,500 groups. Articles are kept only for a short time (typically 2 weeks) and then discarded, though some groups are archived. The collection of articles present on a server at any one time can easily exceed a gigabyte (= 1,000 megabytes) of disk space. Groups can be 'moderated', in which case articles are submitted to an editor who accepts or rejects them for inclusion, or 'unmoderated' in which case anyone can 'post' an article to the group. This would be an appropriate mechanism to distribute a newsletter, and is used to distribute the newsletter of the American Physical Society. There are a number of client software programs available for most major platforms.

WAIS:

WAIS stands for Wide Area Information Service. It consists of a full text search program utilizing a client/server model. WAIS is complementary to Gopher. It is useful when one wants to do keyword searches through a very large number of documents and then browse those documents with the best matches for the search terms. It also has some built in capability for auditing in order to charge for access. It is

based on an older (1988) version of the ISO standard Z39.50 for full text search and retrieval.

Z39.50:

An International Standards Organization Standard protocol for full text search and retrieval. Public domain servers and clients using an older version of this protocol are currently available (see WAIS). It is expected that similar software supporting the latest version of the standard will soon be available without cost from the Clearing House for Networked Information Discovery and Retrieval (CNIDR) which is receiving NSF support to develop it..

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- [3] EFFector Online, a publication of the Electronic Frontier Foundation, ISSN 1062-9424, available via gopher at gopher.eff.org
- [4] Ulam Quarterly announcement on Amer. Math. Soc. gopher at e-math.ams.org port 70

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==:B:==

==:T:== 01/25/93 11:19:03 >BEBO CERN line mode front page is a mess  
 =====  
 Date: Mon, 25 Jan 1993 11:15 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: BEBO@SLACVM, TONYJ@SLACVM, WINTERS@SLACVM  
 Subject: CERN line mode front page is a mess

Bebo, Harv was checking whether the SLAC use only feature for PROBTRAK worked from CERNVM...He turned up another worse problem. Can you make sure CERN fixes this situation? Cheers, lxa

Received: by SLACVM (Mailer R2.08 R208004) id 3341;  
 Mon, 25 Jan 93 10:59:32 PST  
 Date: Mon, 25 Jan 1993 10:54 -0800 (PST)  
 From: "H. Galic" <GALIC@SLACVM>  
 To: ADDIS@SLACVM, CRANE@SLACVM  
 Subject: Re: probtrak added to www ... can you check this from CERN

In-Reply-To: ADDIS@SLACVM -- 01/25/93 10:34

Looking from CERN in the line mode: The page obtained by PF 8 (SLAC ... as well as many additional topics <8>) is a total mess. Probtrak and networking doesn't appear, but HEPNAMES, INSTITUTIONS, PARTICLES, EXPERIMENTS and WHATIS are not usable. The same page when looked from SLACVM is fine.

Harv

==:B:==

==:T:== 01/25/93 12:43:53 >GALIC Great...I'll check it out  
 =====  
 Date: Mon, 25 Jan 1993 12:33 -0800 (PST)  
 From: "Louise Addis" <ADDIS@SLACVM>  
 To: GALIC@SLACVM  
 Subject: Great...I'll check it out

The DESY format problem won't hit us for another three or four weeks



but I'd like to get the bulletin board lists going on W3.

Why don't you 'play' with that. Look at the Seminars stuff to get some ideas of how to do it. Probably something like a list of bulletin boards and click boxes for yesterday and 'this month' & 'last month' ....some such.

Your physicist colleagues no doubt have strong (and non concensus) opinions about what they'd like to see so we'll try some stuff.

I sent mail to BEBO to get CERN to fix their stuff. Could you monitor that pretty regularly since theres a bunch of users there.

Cheers,

lxa

==:B:==

==:T:== 01/26/93 21:38:50 >ADDIS Director's demo

=====  
Date: Tue, 26 Jan 1993 19:01 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM,  
WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM,  
SLAVKO@STANFORD,  
SUZANNE@SLACVM, VANI@SLACVM,  
cottrell@unixhub.slac.stanford.edu

Subject: Director's demo

B. Richter has requested a briefing on the Electronic Information scene, including WWW, for next Monday, 4 Feb at 3 pm. Please let me know if you'll attend.

We are arranging for an X-terminal in the Green Room (they've got half a hookup there and Len Sweeney is working on the other half).

I'm preparing (with the help of Robin C. and Slavko M.) an overview of some of the major 'electronic journal' experiments in the scientific community.

We will also demo the INSPEC database via folio, hopefully via WWW and take a quick look at PINET (maybe also via WWW but certainly thru a window on the X-terminal).

TonyJ plans to demo a test version of MidasWWW which will display a postscript SLAC-PUB (to show feasibility). (Vani is preparing a postscript version of a TeXed pub with imbedded figures.)

A demo of the Bulletin Board Gopher server and our Bulletin Board access (both via the Web) will be appropriate.

Suggestions??

B.R. will be leaving shortly thereafter for a meeting of the APS (which he will chair) during which the question of the future of the APS journals will be discussed in light of the impact of Bulletin Boards and the Internet revolution.

Incidentally, Gary Taubes, the author of Nobel Dreams, has been interviewing Paul Ginsparg, and several of us here at SLAC and CERN, in preparation for an article which he is writing for Science on the electronic revolution. It is possible that WWW will get a paragraph or a sentence. During a chat, he mentioned that the bulletin boards may have a combined subscriber list of more than 8000 which is more than Phys.Rev.Letters. I'm going to check those numbers, but if true, it's impressive and

the APS has good reason for concern.

==:B:==

==:T:== 01/27/93 10:56:25 >WWWLIST WWW errata - Demo date, Monday 1 Feb (not 4 Feb)

=====  
Date: Wed, 27 Jan 1993 10:54 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM,  
WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM,  
jonwa@unixhub.slac.stanford.edu, SLAVKO@STANFORD,  
SUZANNE@SLACVM, VANI@SLACVM,  
cottrell@unixhub.slac.stanford.edu

Subject: WWW errata - Demo date, Monday 1 Feb (not 4 Feb)

==:B:==

==:T:== 01/28/93 14:58:40 >WBJ need 15 cylinders for group LX

=====  
Date: Thu, 28 Jan 1993 14:57 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: WBJ@SLACVM

Subject: need 15 cylinders for group LX

Hi Bill, Per our phone con, we need a few cylinders for the  
WWW account which is in my group LX. LX doesn't have much  
space allotted. Could you please increase it by 15 cylinders  
or so?

Much thanks, Louise

==:B:==

==:T:== 01/28/93 20:04:58 >GALIC thank you!!!

=====  
Date: Thu, 28 Jan 1993 20:04 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: GALIC@SLACVM

Subject: thank you!!!

==:B:==

==:T:== 01/28/93 21:49:41 >BEBO various

=====  
Date: Thu, 28 Jan 1993 21:39 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM, CRANE@SLACVM, GALIC@SLACVM

Subject: various

I ran into a 'virtual storage exceeded' condition in the line  
browser this evening and had some trouble getting out of W3.  
Control-L finally did the trick. This probably isn't a real 'bug'  
though it seems like WWW should issue some warning when you're getting  
close to the limits...with instructions about backing out.

Also, I noticed the new list of Gopher servers at the bottom  
of the additional topic list. However, when I chose it, there  
wasn't a list and I was ushered gently into an empty Gopher hole.

Cheers, lxa

==:B:==

==:T:== 01/30/93 10:47:40 >BEBO X Mosaic browser

=====  
Date: Sat, 30 Jan 1993 10:30 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM

Subject: X Mosaic browser

Hi Bebo, I just got the announcement about the W Mosaic browser

with the descriptive info... looks great on paper doesn't it? How can I actually access it (you mentioned you were installing it) ? If it is a real, funded project it may be a very good thing indeed

==:B:==

==:T:== 01/31/93 00:46:34 >GALIC various

=====  
Date: Sun, 31 Jan 1993 00:44 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: GALIC@SLACVM  
Subject: various

Harv, I'm really glad for the news about your wife!

As you can see, I didn't get free this evening until much too late to return to SLAC so I won't look at your W3 facelift til morning. In meantime will try to figure out the HEPTH mystery.

Cheers, -L

==:B:==

==:T:== 01/31/93 16:36:39 >GALIC WWW format

=====  
Date: Sun, 31 Jan 1993 16:33 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: GALIC@SLACVM  
Subject: WWW format

Hi Harv, George has made the WWW frame the default for WWW on the WWWTEST disk. It seems to work fine. I notice, however, that old versions of the HEP index, etc. are still on the WWWTEST 192 disk. Since the current versions are on the WWW 192 disk, the old indexes should be erased from WWWTEST 192 so WWW will be forced to use the new versions on WWW 192.

Can you take care of that?

It all looks a lot better....Congrats!

I'll pick up the abstracts tonight so 'YESTERDAY' will work.

==:B:==

==:T:== 01/31/93 16:40:35 >TONYJ I hope you're around tonight to reconnect WWWMidas to

=====  
Date: Sun, 31 Jan 1993 16:36 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: TONYJ@SLACVM  
Subject: I hope you're around tonight to reconnect WWWMidas to

the outside world. Can't get to 'papers' or to 'gopher' and would like to be able to for the demo tomorrow.

Also, need to talk to you about what to do about displaying a paper. Getting a real SLAC pub with all the figures into a form which ghostview can handle has been a bear (as Bill Lockman will tell you). We finally just gave up and will pull something from a bulletin board.

Cheers, lxa

P.S. Hope Dallas went ok.

==:B:==

==:T:== 01/31/93 17:05:40 >BEBO WWWTEST and your new disk for WWW

=====  
Date: Sun, 31 Jan 1993 17:01 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: BEBO@SLACVM

Subject: WWWTEST and your new disk for WWW

WBJ gave me some space for group LX on Friday. The CZAR account is WWWTEST. Why don't you just give WWW a 193 disk from WWWTEST and restart the daemon, etc. when you're ready.

Hope you got someplace with the Gopher problem.

We're ok now with the WWW format for the various databases and the BB stuff is on the wwptest front page with 'yesterday' etc. thanks to Harv.

Hope your sick child is better.

Cheers, louise

==:B:==

==:T:== 01/31/93 23:37:04 >BEBO gopher fixed

=====  
Date: Sun, 31 Jan 1993 23:34 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM

Subject: gopher fixed

Hi Bebo, Tonyj noticed that the address for gopher was slightly wrong in the 'additional' menu. I fixed it and we're in business. (it needed the umn in gopher.micro.umn.edu)

The postscript viewing looks great so if all systems stay up, we'll have some stuff to show.

lxa

==:B:==

==:T:== 01/30/93 22:29 GALIC WWW - progress report

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 8219;

Sat, 30 Jan 93 22:29:22 PST

Date: Sat, 30 Jan 1993 22:24 -0800 (PST)

From: "H. Galic"

<GALIC@SLACVM>

To: ADDIS@SLACVM

Subject: WWW - progress report

Louise, I did my best with the "esthetic" face-lift of the SPIRES indexes on WWW. Please check on a full-screen terminal.

This adventure took me the whole evening, and didn't have time to see what's going on with the HEP-TH b-board.

George unfortunately still didn't add "(using www" as the default in WWW.

Harv. (As you may guess from my being here, my wife's recovery is progressing very well)

==:B:==

==:T:== 01/29/93 02:32 timbl @nxoc01. NCSA X Mosaic 0.5 WWW browser released

=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 7393; Fri, 29 Jan 93 02:32:10 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Fri, 29 Jan 1993 02:32 PDT

Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA20786; Fri, 29 Jan 1993 11:29:16 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA06903; Fri, 29 Jan 93 11:11:37 MET

Received: from www3.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA20690; Fri, 29 Jan 1993 11:27:20 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA04007; Fri, 29 Jan 93 11:25:29 +0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Fri, 29 Jan 93 11:25:29 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: NCSA X Mosaic 0.5 WWW browser released

To: www-announce@nxoc01.CERN.CH

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9301291025.AA04007@www3.cern.ch>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

An exciting new World-Wide Web browser has come out, written by Marc Andreessen of NCSA. Using X/Motif, full of good features, it installs very easily as the binary is completely self-sufficient.

The release note is appended to this message. The sources and binaries are available by anonymous FTP from ftp.ncsa.uiuc.edu as described below, and also from info.cern.ch as files

/pub/www/src/xmosaic-0.5.tar.Z	The sources
/pub/www/bin/decstation/xmosaic_0.5	binary (ultrix)
/pub/www/bin/sun4/xmosaic_0.5	binary (sun4)
/pub/www/bin/snake/xmosaic_0.5	binary (hp 700)
/pub/www/bin/sgi/xmosaic_0.5	binary (sgi)
/pub/www/bin/rs6000/xmosaic_0.5	binary (ibm rs6000)

Tim Berners-Lee

---

Begin forwarded message:

Date: Sat, 23 Jan 93 07:21:17 -0800

From: marca@ncsa.uiuc.edu (Marc Andreessen)

By the power vested in me by nobody in particular, alpha/beta version 0.5 of NCSA's Motif-based networked information systems and World Wide

Web browser, X Mosaic, is hereby released:

file://ftp.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.5.tar.Z

This release of X Mosaic is known to compile on the following platforms:

SGI (IRIX 4.0.2)

IBM (AIX 3.2)

Sun 4 (SunOS 4.1.2 with stock X11R4 and Motif 1.1).

Binaries for these platforms are available on ftp.ncsa.uiuc.edu in /Web/xmosaic/binaries-0.5. More binaries will be supplied as I am able to find other Motif-configured platforms to use (DEC MIPS probably within the next half hour).

Although this is alpha/beta software, I'm looking more for feedback on design and functionality than bug reports right now -- down the road

the bulk of the program will be rewritten in C++ anyway, so don't take the current code too seriously. But bug reports are welcome too. New releases will probably come out about every 7-14 days until 1.0 arrives.

A list of current and future capabilities of X Mosaic follows this message.

Cheers,  
Marc

--  
Marc Andreessen  
Software Development Group  
National Center for Supercomputing Applications  
marca@ncsa.uiuc.edu

Current capabilities  
.....

- Motif interface.
  - Multiple toplevel windows.
  - Save/mail/print document (plaintext or HTML).
  - Document source- and URL-viewing windows.
  - History list per window with GUI interface.
  - Option for new window per document (TurboGopher interface).
  - On-the-fly font selection.
  - Many common document choices accessible via menubar.
  - Keyword search capability.
  - Hotlist capability -- keep list of interesting documents, add/remove items, list is persistent across sessions.
  - Smart handling of documents too big for single X window -- virtual document pages via inlined hypertext.
  - Interruptable at any time via SIGUSR1 signal.
  - No config or resource file installation required;
  - self-contained executable.
  - Hypertext help.
  - Integration with NCSA Collage and NCSA DTM to broadcast documents into real-time networked workgroup collaboration sessions.
- Stable! :-)

Future capabilities  
.....

- Multimedia/MIME.
- Asynchronous collaboration functionality. (annotations, references, revision control).
- Hypermedia interface to scientific data.
- Visual hyperweb/hierarchy layout and navigation.
- 3D/immersive interface.
- ???

==:B:==

==:T:== 01/28/93 22:27 GALIC Re: various

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 5793;

Thu, 28 Jan 93 22:27:46 PST

Date: Thu, 28 Jan 1993 22:16 -0800 (PST)

From: "H. Galic"  
 To: ADDIS@SLACVM, BEBO@SLACVM, CRANE@SLACVM  
 Subject: Re: various

&lt;GALIC@SLACVM&gt;

In-Reply-To: ADDIS@SLACVM -- 01/28/93 21:49

The address providing the list of Gopher servers is very long and probably incorrectly split. (Check the DEFAULT HTML on WWW 192) In fact, it seems that we still do not know what to do with such long lines and how and where to break them. Does anybody know how to break the long html addresses/commands? Also, is there any progress with the searches like FIN TITLE PI+ ? WWW reads this search command as fin+title+pi+ and returns a wrong answer.  
 Harv.

==:B:==

==:T:== 01/28/93 19:47 GALIC I fixed tonight databases names in the DEFAULT HTML on WWW disk ...

Received: by SLACVM (Mailer R2.08 R208004) id 5041;  
 Thu, 28 Jan 93 19:47:05 PST

Date: Thu, 28 Jan 1993 19:43 -0800 (PST)

From: "H. Galic"

&lt;GALIC@SLACVM&gt;

To: BEBO@SLACVM, CRANE@SLACVM, ADDIS@SLACVM

Subject: I fixed tonight databases names in the DEFAULT HTML on WWW disk ...

... and now everything works OK from CERN.  
 (Earlier in the morning somebody else fixed other errors).  
 Harv.

==:B:==

==:T:== 02/03/93 03:08:04 >WWWLIST WWW Meeting, NEW TIME, NEW PLACE, 4 pm, Wednesday, 3 Feb, Green Rm.

Date: Wed, 03 Feb 1993 03:00 -0800 (PST)

From: "Louise Addis"

&lt;ADDIS@SLACVM&gt;

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD, SUZANNE@SLACVM, VANI@SLACVM, MFSOR@SLACVM, RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu

Subject: WWW Meeting, NEW TIME, NEW PLACE, 4 pm, Wednesday, 3 Feb, Green Rm.

Agenda:

Status reports

Demos

What should we move to the production front page?

==:B:==

==:T:== 02/03/93 22:39:22 >TONYJ problem with WWW on NeXT (why it crashes)

Date: Wed, 03 Feb 1993 22:11 -0800 (PST)

From: "Louise Addis"

&lt;ADDIS@SLACVM&gt;

To: TONYJ@SLACVM, GALIC@SLACVM, BEBO@SLACVM, CRANE@SLACVM, PFKEB@SLACVM, RENATA@SLACVM, ginsparg@xxx.lanl.gov

cc: timbl@info.cern.ch

Subject: problem with WWW on NeXT (why it crashes)

Following up tonight on a complaint from P.Ginsparg that he could no longer use his NeXT to access SPIRES-HEP, I discovered that NeXT WWW (v. 0.14) not only doesn't recognize html markup like <h1>something something</h1> but it crashes the ap.

I took the extra markup out of HEP.INDEX on the WWW 192 disk and now HEP works fine from the NeXT but doesn't look nearly as nice on Midas as it did before.

You can see the effect on a NeXT by first clicking on HEP PUBLICATIONS which now works fine. Then move on to OTHER APPLICATIONS and try BOOKS. You'll crash.

I haven't changed any of the other index files on WWW 192 because I think that the NEXT browser ought to get fixed.

The line browsers and Midas all recognize the html as documented.

Louise

==:B:==

==:T:== 02/07/93 22:37 joe @athena. Announcing tkWWW Version 0.5 Alpha  
=====

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 7479; Sun, 07 Feb 93 22:37:45 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Sun, 7 Feb 1993 22:38 PDT

Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA06523; Mon, 8 Feb 1993 07:35:45 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA05379; Mon, 8 Feb 93 07:16:49 MET

Received: from ATHENA-AS-WELL.MIT.EDU by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA05780; Mon, 8 Feb 1993 07:32:52 +0100

Received: from THEODORE-STURGEON.MIT.EDU by Athena.MIT.EDU with SMTP id AA19996; Mon, 8 Feb 93 01:26:38 EST

Received: by theodore-sturgeon (5.57/4.7) id AA19528; Mon, 8 Feb 93 01:26:37 -0500

Date: Mon, 8 Feb 93 01:26:37 -0500

From: joe@athena.mit.edu

Subject: Announcing tkWWW Version 0.5 Alpha

To: tk-www@athena.mit.edu, www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH, tcl-archive@athena.mit.edu

Message-id: <9302080626.AA19528@theodore-sturgeon>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

tkWWW Version 0.5 alpha (joe@athena.mit.edu)  
-----

WHAT IS THIS?  
-----

World Wide Web (WWW) is a hypertext project which seeks to build a world wide network of hypertext links. There are several different browsers for this system including a simple tty interface. For a demo of the terminal browsers for WWW, telnet to the following sites:

telnet info.cern.ch or telnet 128.141.201.74 (SWISS)  
telnet eies2.njit.edu or telnet 128.235.1.43 (USA [NJ])  
telnet vms.huji.ac.il or telnet 128.139.4.3 (ISRAEL)  
telnet info.funet.fi or telnet 128.214.6.100 (FINLAND)

and login as "www"

Tk is an interpreted toolkit which allows one to build X11 applications quickly and easily.

tkWWW is a Tk interface to (WWW), which lets you send embedded buttons, scrollbars, etc in hypertext written for WWW.

The Tk browser has the following advantages.

1. Since the entire user interface is written in an interpreted language, it should be very easy to make modifications and extensions to the system.



2. tkWWW can be configured with the "htext" widget which makes it is possible to imbed Tk code into hypertext or with the "text" widget which makes it possible to display multi-fonts. In the next few months, there will be a new revision of tK which will allow imbedded tK code with the "text" widget and support for the tkWWW "htext" widget will be discontinued.

#### WHERE IS THIS?

-----  
tkWWW 0.5 can be anon ftp'ed from  
export.lcs.mit.edu:/contrib/tkWWW-0.5.tar.Z  
barkley.berkeley.edu:/tcl/extensions/tkWWW-0.5.tar.Z  
info.cern.ch:/pub/WWW/src/tkWWW-0.5.tar.Z

#### WHAT HAS CHANGED SINCE 0.4?

-----  
Converted tkWWW to use www library 1.1a  
Introduced multi-fonts  
Added menu options to access various tkWWW sources.  
Added cloning by pressing button2.

#### MAILING LIST

-----  
There is a mailing list devoted to discussions about tkWWW at  
tk-www@athena.mit.edu

To get on this list, send e-mail to

tk-www-request@athena.mit.edu

#### INSTALLATION

- 1. Edit the file "tkWWW.imake" to set system defaults  
2. Type the following commands in the directory TkWWW

```
xmkmf
make world
make install
```

==:B:==

==:T:== 01/14/93 15:49 pfkeb @SLAC.ST Re: Minutes of WWWizard Meeting, 16 Dec 92 (draft)

=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 9631; Thu, 14 Jan 93 15:49:25 PST  
Received: from KAON.SLAC.Stanford.EDU by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 14 Jan 1993 15:26 PDT  
Received: by kaon.SLAC.Stanford.EDU (NX5.67c/NX3.0S) id AA20040; Thu, 14 Jan 93 15:26:31 -0800  
Received: by NeXT.Mailer (1.87.1.RR)  
Received: by NeXT Mailer (1.87.1.RR)  
Date: Thu, 14 Jan 93 15:26:31 -0800  
From: "Paul F. Kunz" <PFKEB@SLAC.Stanford.EDU>  
Subject: Re: Minutes of WWWizard Meeting, 16 Dec 92 (draft)  
To: ADDIS@SLACVM.SLAC.Stanford.EDU  
Reply-to: pfkeb@SLAC.STANFORD.EDU  
Message-id: <9301142326.AA20040@kaon.SLAC.Stanford.EDU>  
X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU

The reason cluster version of WWW, which includes libnext, has had the

0.14 version since you told me it existed.

==:B:==

==:T:== 01/14/93 13:58 TONYJ @SCS.SLA FWD: Server maintainers please note

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 6775; Thu, 14 Jan 93 13:58:34 PST

Date: Thu, 14 Jan 1993 11:00 PDT

From: "Tony Johnson (415) 926 2278" <TONYJ@SCS.SLAC.STANFORD.EDU>

Subject: FWD: Server maintainers please note

To: bebo@SLACVM.SLAC.Stanford.EDU

Cc: addis@SLACVM.SLAC.Stanford.EDU

Message-id: <838CB7DAD0824DD6@SCS.SLAC.STANFORD.EDU>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, bebo@SLACVM.SLAC.Stanford.EDU

X-VMS-To: in%"bebo@slacvm"

X-VMS-Cc: TONYJ, in%"addis@slacvm"

I will set up a webmaster alias on SLACVM (see below), can you set up one on VM? I would guess you should be "webmaster" on VM, and me on SLACVM?

Tony

From: IN%"timbl@nxoc01.CERN.CH" 14-JAN-1993 02:27:43.82

To: www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH

CC:

Subj: Server maintainers please note

Return-path: <timbl@www3.CERN.CH>

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 14 Jan 1993 02:27 PDT

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA18283; Thu, 14 Jan 1993 11:22:47 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA10435; Thu, 14 Jan 93 11:05:28 MET

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA18139; Thu, 14 Jan 1993 11:20:39 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA00336; Thu, 14 Jan 93 11:19:47 +0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Thu, 14 Jan 93 11:19:47 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: Server maintainers please note

To: www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9301141019.AA00336@www3.cern.ch>

X-Envelope-to: tonyj

An addition to the server etiquette rules in <http://info.cern.ch/hypertext/WWW/Provider/Etiquette.html> says that for any internet host running a WWW server there should be a mail alias

webmaster@hostname

to which problems with the server can be reported.

Remember also that it is wise to set up a domainname alias for your server: rather than referring to it as mysun4.cc.fred.edu make an alias for example

www.fred.edu

so that if you change machines, the alias can be switched to the new

server.

Thanks for your time, keep up the good work!

Tim BL

---

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

```

==:B:==
==:T:== 01/06/93 06:40    timbl    @nxoc01. World-Wide Web -- TechInfo gateway
=====
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08
R208004) with BSMTMP id 7427; Wed, 06 Jan 93 06:40:51 PST
Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Wed, 6
Jan 1993 06:40 PDT
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA11300; Wed, 6 Jan 1993
15:37:23 +0100
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail
5.52)/NeXT-2.0) id AA12343; Wed, 6 Jan 93 15:19:57 MET
Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA11033; Wed, 6 Jan 1993
15:34:52 +0100
Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA01759; Wed, 6 Jan 93 15:34:49
+0100
Received: by NeXT.Mailer (1.87.1)
Received: by NeXT Mailer (1.87.1)
Date: Wed, 6 Jan 93 15:34:49 +0100
From: Tim Berners-Lee <timbl@www3.CERN.CH>
Subject: World-Wide Web -- TechInfo gateway
To: murphy@dccs.upenn.edu
Cc: www-announce@nxoc01.CERN.CH
Reply-to: timbl@nxoc01.CERN.CH
Message-id: <9301061434.AA01759@www3.cern.ch>
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

```

"TechInfo" is a client-server information system similar to but predating Gopher, with some interesting extra facilities. It was developed at MIT, and currently Baylor University, Mississippi State, University of Oslo, University of Pennsylvania, and the Dana-Farber Cancer Institute are using it.

A simple gateway to allow these Campus information systems to be part of the World-Wide Web is now running. As well has navigation using menus, keyword searches are possible on the whole server or any subtree.

The gateway may be accessed as

www <http://info.cern.ch:8004/>

or with whatever WWW client you prefer.

The gateway is based on code by Linda Murphy of the University of Pennsylvania.

Questions/suggestions/bugs about the code to [www-bug@info.cern.ch](mailto:www-bug@info.cern.ch). Sources for

the gateway are available on request, so techinfo site managers can run the gateway on their local machines. This will allow WWW readers to access their information along with all the rest of the information on the web. Running the gateway locally to the techinfo server will give faster response than using

the gateway at CERN. The CERN gateway is a volunteer service and there is no formal support commitment from CERN.

Tim Berners-Lee

---

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 02/14/93 20:53 marca @ncsa.ui X Mosaic 0.8 released

=====  
 Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 1319; Sun, 14 Feb 93 20:53:39 PST  
 Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Sun, 14 Feb 1993 20:50 PDT  
 Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA09611; Mon, 15 Feb 1993 05:39:32 +0100  
 Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA05557; Mon, 15 Feb 93 05:20:48 MET  
 Received: from newton.ncsa.uiuc.edu by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA09539; Mon, 15 Feb 1993 05:37:38 +0100  
 Received: from wintermute.ncsa.uiuc.edu by newton.ncsa.uiuc.edu with SMTP id AA23008 (5.65a/IDA-1.4.2 for www-announce@nxoc01.cern.ch); Sun, 14 Feb 93 22:37:37 -0600  
 Received: by wintermute.ncsa.uiuc.edu (920110.SGI/911001.SGI) for @newton.ncsa.uiuc.edu:www-talk@nxoc01.cern.ch id AA04545; Sun, 14 Feb 93 22:39:19 -0800  
 Date: Sun, 14 Feb 93 22:39:19 -0800  
 From: marca@ncsa.uiuc.edu (Marc Andreessen)  
 Subject: X Mosaic 0.8 released  
 In-reply-to: <9302150609.AA04065@wintermute.ncsa.uiuc.edu>  
 To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH  
 Message-id: <9302150639.AA04545@wintermute.ncsa.uiuc.edu>  
 X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU  
 X-Md4-Signature: 22c593d547445fa6e682eb6b1dbclad8  
 References: <9302150609.AA04065@wintermute.ncsa.uiuc.edu>

Anybody who pulled down 0.8 binaries already (by 10:40PM CST on Sunday) is encouraged to do so again, as one last-minute bug was just fixed.

Thanks, and sorry for any inconvenience,

Marc

--  
 Marc Andreessen  
 Software Development Group  
 National Center for Supercomputing Applications  
 marca@ncsa.uiuc.edu

==:B:==

==:T:== 02/14/93 20:25 marca @ncsa.ui X Mosaic 0.8 released

=====  
 Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08

R208004) with BSMTMP id 1237; Sun, 14 Feb 93 20:25:47 PST  
Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Sun, 14 Feb 1993 20:26 PDT  
Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA07784; Mon, 15 Feb 1993 05:13:10 +0100  
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA05350; Mon, 15 Feb 93 04:51:27 MET  
Received: from newton.ncsa.uiuc.edu by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA07643; Mon, 15 Feb 1993 05:08:18 +0100  
Received: from wintermute.ncsa.uiuc.edu by newton.ncsa.uiuc.edu with SMTP id AA22097 (5.65a/IDA-1.4.2 for www-announce@nxoc01.cern.ch); Sun, 14 Feb 93 22:08:16 -0600  
Received: by wintermute.ncsa.uiuc.edu (920110.SGI/911001.SGI) for @newton.ncsa.uiuc.edu:www-talk@nxoc01.cern.ch id AA04065; Sun, 14 Feb 93 22:09:58 -0800  
Date: Sun, 14 Feb 93 22:09:58 -0800  
From: marca@ncsa.uiuc.edu (Marc Andreessen)  
Subject: X Mosaic 0.8 released  
To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH  
Message-id: <9302150609.AA04065@wintermute.ncsa.uiuc.edu>  
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU  
X-Md4-Signature: 3357bd9c76b53a8bdb32c82bfde27cce

With a bang and a whimper, beta version 0.8 of NCSA's Motif-based networked information systems and World Wide Web browser, X Mosaic, is hereby released:

file://ftp.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.8.tar.Z

This release of X Mosaic is known to compile on the following platforms:

SGI (IRIX 4.0.2)  
IBM (AIX 3.2)  
Sun 4 (SunOS 4.1.2 with stock X11R4 and Motif 1.1).  
DEC Ultrix.

Binaries for these platforms are available:

file://ftp.ncsa.uiuc.edu/Web/xmosaic/binaries-0.8

More binaries will be supplied as I am able to find other Motif-configured platforms to use. (Contributions of working binaries are welcome.) Documentation is available online, but is temporarily out of date (I'll probably bring it up to date this weekend).

Changes since 0.7 include:

- o Telnet access is enabled for IBM systems (and others that don't define 'unix' by default).
- o TN3270 access is now available (probably will only work on IBM systems).
- o Underline setting now carries from window to window like it should.
- o Stupid little bugs nailed in open local file routines.
- o More stupid little bugs nailed in opening multiple windows.
- o Fixed buglet with text fields on some platforms.
- o Most plaintext documents can now be annotated (except for results of WAIS queries and those that use <plaintext> explicitly).
- o Annotate and Edit Annotation menubar entries disabled for stupid Ultrix, since the annotation window causes a spurious BadWindow error for no apparent reason at all.
- o Better colors (including brighter colors on non-SGI platforms).
- o Makefile option to compile with mono colors as the default.
- o Revised copyright notice.
- o A few random bugfixes and cleanups.

Although this is beta software, I'm looking more for feedback on design and functionality than bug reports right now -- down the road the bulk of the program will be rewritten in C++ anyway, so don't take the current code too seriously. But bug reports are welcome too. New releases will probably come out about every 7-14 days until 1.0 arrives.

Finally, thanks again to everyone who's contributed comments and bug reports -- keep 'em coming.

Cheers,  
Marc & Eric

--

Marc Andreessen & Eric Bina  
Software Development Group  
National Center for Supercomputing Applications  
marca@ncsa.uiuc.edu, ebina@ncsa.uiuc.edu

==:F:== Forward from ADDIS

=====  
Date: Wed, 17 Feb 1993 19:13 -0800 (PST)  
From: "Louise Addis"  
To: SSCLIB10@SLACVM  
Subject: X Mosaic 0.8 released

<ADDIS@SLACVM>

Forwarded-from: ADDIS

==:B:==

==:T:== 02/11/93 20:11 marca @ncsa.ui X Mosaic 0.7 released

=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 2423; Thu, 11 Feb 93 20:11:12 PST  
Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 11 Feb 1993 20:11 PDT  
Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA07089; Fri, 12 Feb 1993 04:54:50 +0100  
Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA21538; Fri, 12 Feb 93 04:35:41 MET  
Received: from newton.ncsa.uiuc.edu by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA06932; Fri, 12 Feb 1993 04:51:51 +0100  
Received: from wintermute.ncsa.uiuc.edu by newton.ncsa.uiuc.edu with SMTP id AA11023 (5.65a/IDA-1.4.2 for www-announce@nxoc01.cern.ch); Thu, 11 Feb 93 21:51:43 -0600  
Received: by wintermute.ncsa.uiuc.edu (920110.SGI/911001.SGI) for @newton.ncsa.uiuc.edu:rkatz@darpa.mil id AA20861; Thu, 11 Feb 93 21:53:19 -0800  
Date: Thu, 11 Feb 93 21:53:19 -0800  
From: marca@ncsa.uiuc.edu (Marc Andreessen)  
Subject: X Mosaic 0.7 released  
To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH  
Message-id: <9302120553.AA20861@wintermute.ncsa.uiuc.edu>  
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU  
X-Md4-Signature: dfef02d3c78b96c5a3c700be40e36854

Shazam and kaboom -- beta version 0.7 of NCSA's Motif-based networked information systems and World Wide Web browser, X Mosaic, is hereby released:

file://ftp.ncsa.uiuc.edu/Web/xmosaic/xmosaic-0.7.tar.Z

This release of X Mosaic is known to compile on the following

platforms:

SGI (IRIX 4.0.2)  
IBM (AIX 3.2)  
Sun 4 (SunOS 4.1.2 with stock X11R4 and Motif 1.1).  
DEC Ultrix.

Binaries for these platforms are available:

file://ftp.ncsa.uiuc.edu/Web/xmosaic/binaries-0.7

More binaries will be supplied as I am able to find other Motif-configured platforms to use. (Contributions of working binaries are welcome.) Documentation is available online, but is temporarily out of date (I'll probably bring it up to date this weekend).

Changes since 0.6 include:

- o Annotations!
  - o Personal only (until smart servers get written).
  - o Automatic inlining of annotation pointers into documents.
  - o Annotations automatically persistent across sessions (naturally).
  - o Annotations are subsequently editable/removable.
  - o Lots of neat GUI things.
- o Underlined anchors! You're gonna love this.
  - o 0, 1, 2, or 3 underlines for each of unvisited and previously visited anchor types.
  - o Solid or dashed underlines for each of unvisited and previously visited anchor types.
- o Application exits when all windows are closed.
- o Support for <menu> and <dir>.
- o Better support for nested lists (filled bullets, empty bullets, empty boxes).
- o Better selection capabilities:
  - o Select by character.
  - o New resource, fancySelections: if true, selections will be "pretty-printed" when pasted into a normal X window (with underlined headers, bullets for lists, etc.). This is modifiable per-window from the menubar also.
- o Additional command-line argument: free-standing URL will be used as home document, and overrides all other specifications (including WWW\_HOME, X resource homeDocument, and -home flag). Is that enough ways to specify the home document??? :-)
- o Additional command-line flag -mono, for getting black&white fallback X defaults... you mono people out there are gonna have to let me know if I'm providing a decent set of mono resources. Should there be a distinction between -mono and -greyscale??
- o Middle button in scrolled lists is now equivalent of double-clicking with left button.
- o Performance enhancement for history window's future list.
- o Fix for gopher connection port usage.
- o Fix for proper gopher and WAIS document titles.
- o Temporary fix to access Supreme Court documents on Cornell Law School server (if manager of that server is out there, please contact me -- you have a problem).
- o Option menu for document title/url display at top of window.
- o Cute icons in upper right-hand corner of windows for quick window ID.
- o Previous search keyword is trimmed correctly.
- o Search keyword remains in text field until search is complete.
- o New 'Clear Global History' option (to revert all anchors back to the unvisited color).
- o Fixed bug in hotlist geometry layout.
- o Lots of new resources:
  - o confirmExit
  - o ghostviewCommand

- o mailCommand
- o printCommand
- o xtermCommand
- o globalHistoryFile
- o defaultHotlistFile
- o personalAnnotationDirectory
- o Tabs now behave absolutely properly in preformatted text.
- o Fixed premature signal setup causing coredump when ctrl-c was hit during startup.
- o Hotlist is saved every time it's changed, to avoid losing information.
- o Busy cursor is used more often, as it should be.
- o Better handling of telnet/xterm functions (forked into background; browser never lands on 'telnet' document).
- o Ghostview runs in background now.
- o Changed application class name to 'XMosaic' for consistency.
- o Minor bugfixes and cleanups.

Although this is beta software, I'm looking more for feedback on design and functionality than bug reports right now -- down the road the bulk of the program will be rewritten in C++ anyway, so don't take the current code too seriously. But bug reports are welcome too. New releases will probably come out about every 7-14 days until 1.0 arrives.

Finally, thanks again to everyone who's contributed comments and bug reports, and please... keep 'em coming.

Cheers,  
Marc & Eric

--  
Marc Andreessen & Eric Bina  
Software Development Group  
National Center for Supercomputing Applications  
marca@ncsa.uiuc.edu, ebina@ncsa.uiuc.edu

==:F:== Forward from ADDIS

=====  
Date: Wed, 17 Feb 1993 19:14 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: SSCLIB10@SLACVM  
Subject: X Mosaic 0.7 released

Forwarded-from: ADDIS

==:B:==

==:T:== 02/08/93 18:59 ginsparg @qfwfq.l Re: problem with WWW on NeXT (why it crashes)  
=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 3523; Mon, 08 Feb 93 18:59:48 PST  
Received: from p.lanl.gov by SCS.SLAC.STANFORD.EDU with PMDF#10283; Mon, 8 Feb 1993 19:00 PDT  
Received: from qfwfq.lanl.gov by p.lanl.gov (5.65/1.14) id AA07005; Mon, 8 Feb 93 19:59:57 -0700  
Received: by qfwfq.lanl.gov (NX5.67c/NX3.0S) id AA07729; Mon, 8 Feb 93 19:59:55 -0700  
Date: Mon, 8 Feb 93 19:59:55 -0700  
From: Paul Ginsparg 505-667-7353 <ginsparg@qfwfq.lanl.gov>  
Subject: Re: problem with WWW on NeXT (why it crashes)  
To: ADDIS@SLACVM.SLAC.Stanford.EDU  
Message-id: <9302090259.AA07729@qfwfq.lanl.gov>  
X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU



p.s. what is sgml?

==:B:==

==:T:== 02/08/93 18:55 ginsparg @qfwfq.l Re: problem with WWW on NeXT (why it crashes)

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 3505; Mon, 08 Feb 93 18:55:48 PST

Received: from p.lanl.gov by SCS.SLAC.STANFORD.EDU with PMDF#10283; Mon, 8 Feb 1993 18:56 PDT

Received: from qfwfq.lanl.gov by p.lanl.gov (5.65/1.14) id AA06938; Mon, 8 Feb 93 19:55:57 -0700

Received: by qfwfq.lanl.gov (NX5.67c/NX3.0S) id AA07722; Mon, 8 Feb 93 19:55:54 -0700

Date: Mon, 8 Feb 93 19:55:54 -0700

From: Paul Ginsparg 505-667-7353 <ginsparg@qfwfq.lanl.gov>

Subject: Re: problem with WWW on NeXT (why it crashes)

To: ADDIS@SLACVM.SLAC.Stanford.EDU

Message-id: <9302090255.AA07722@qfwfq.lanl.gov>

X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU

- a) i have been in santa barbara since feb.1 (remember the phone # i gave you last week was area code 805...)
- b) a large fraction of my mail gets automated response, some small fraction i manage to respond to in real time, the rest gets automatically dumped else too much collects. pg

==:B:==

==:T:== 02/08/93 16:57 ginsparg @qfwfq.l Re: broken SPIRES interface

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 2015; Mon, 08 Feb 93 16:57:17 PST

Received: from p.lanl.gov by SCS.SLAC.STANFORD.EDU with PMDF#10283; Mon, 8 Feb 1993 16:57 PDT

Received: from qfwfq.lanl.gov by p.lanl.gov (5.65/1.14) id AA04695; Mon, 8 Feb 93 17:56:54 -0700

Received: by qfwfq.lanl.gov (NX5.67c/NX3.0S) id AA07677; Mon, 8 Feb 93 17:56:51 -0700

Date: Mon, 8 Feb 93 17:56:51 -0700

From: Paul Ginsparg 505-667-7353 <ginsparg@qfwfq.lanl.gov>

Subject: Re: broken SPIRES interface

To: ADDIS@SLACVM.SLAC.Stanford.EDU

Message-id: <9302090056.AA07677@qfwfq.lanl.gov>

X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU

it seems that the 0080 port was not working again yesterday, not sure about now.

but of course what we really need is to get the next www fixed for the long term so things won't keep going up and down. are you in contact with the person who wrote it, so we can find out on what timescale things are likely to be fixed.

on a related issue, some people have asked about the x-windows interface. since i don't use it, i don't know what is necessary. you've mentioned both mosaic and midas browsers, in addition to x-web itself. from where are these three pieces of software available? maybe i can even get them installed at santa barbara so i can see how they work if i can find out from where. pg

==:B:==

==:T:== 02/16/93 16:06:58 >WWWLIST WWWizards meeting, Wed, 17 Feb, 4:00 PM, Green Room

Date: Tue, 16 Feb 1993 16:04 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM,

jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD,

SUZANNE@SLACVM, VANI@SLACVM, KINNEYT@SSCVX1, DADE@SSCVX1, MFSOR@SLACVM,

RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu

Subject: WWWizards meeting, Wed, 17 Feb, 4:00 PM, Green Room

NOTE MEETING TIME: 4:00 pm and PLACE: Green Room

Agenda:

Progress reports and demos

==:B:==

==:T:== 02/18/93 14:36:28 >TIMBL Re: problem with WWW on NeXT (why it crashes)

=====  
Date: Thu, 18 Feb 1993 13:47 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: timbl@nxoc01.CERN.CH

Subject: Re: problem with WWW on NeXT (why it crashes)

In-Reply-To: timbl@nxoc01.CERN.CH -- 02/04/93 04:19+

Tim, The 'workaround' html solution you suggested will get us through til your new NeXT browser appears (were you discouraged at all by the announcement that NeXT is dropping hardware?).

I'm demoing the newest version of WWWmidas with postscript viewing of bulletin board preprints tomorrow for the science librarians at Stanford U. I hope we can release the new SLAC front page soon with all the great new stuff.

We are putting out a newsletter to all our active QSPIRES users (over 400 nodes) plugging WWW so don't be surprised if you start getting some new W3 sites as a result. (he SPIRES usage via WWW is skyrocketing.)

I have been pleased to see WWW mentioned in yet another book, "Crossing the Internet Threshold: an instructional handbook" by Roy Tennant, et al. It has a series of 'fact sheets' about Archie, Gopher, Wais, etc. and W3. (ISBN 1-882208-01-3). It's published by Library Solutions Press, 1993.

Warm regards,

Louise A.

P.S. Is there a new document about HTML someplace (I recently looked a little and didn't see such). We're using the one you wrote sometime ago which starts out 'HTTP as implemented in WWW' and covers HTML. It doesn't have a date but it's been in my files for more than 6 months.

==:B:==

==:T:== 02/23/93 23:32 WINTERS WWW Disk Passwords

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 1457;

Tue, 23 Feb 93 23:32:40 PST

Date: Tue, 23 Feb 1993 23:21 -0800 (PST)

From: "Joan M. Winters"

<WINTERS@SLACVM>

To: ADDIS@SLACVM

Subject: WWW Disk Passwords

Louise - I need to talk with you about this, preferrably sooner than later. Bebo has some idea that you've set a password strategy that does not match my testing. It's affecting the password on WWW 193 and APSNEWS.

I think this will only take 5 minutes max. I don't really care, just so long as we follow some form of consistency. Joan

P.S. By the way, did you get the messages (phone and TELL) I left earlier today about this (and a broken SPIRES/PROBTRAK)?

==:B:==

==:T:== 02/23/93 22:52 WINTERS WWW 193 Installation

Received: by SLACVM (Mailer R2.08 R208004) id 1135; Tue, 23 Feb 93 22:52:15 PST

Date: Tue, 23 Feb 1993 22:49 -0800 (PST)

From: "Joan M. Winters"

<WINTERS@SLACVM>

To: BILLIE@SLACVM

cc: BEBO@SLACVM, ADDIS@SLACVM

Subject: WWW 193 Installation

Billie - You don't need to have APSNEWS in the WWWNEWS (WWW 193) STAFF list in order to be able to install on that disk. That's what I was discussing with you Friday.

However, you may not have the current password for that disk, since there's been some debate about it. Let's get together tomorrow and make sure you can install on that disk O.K. Joan

==:B:==

==:T:== 02/21/93 16:40 WINTERS @SLACVM. WWW 193 Installable Disk Now

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 2517; Sun, 21 Feb 93 16:40:33 PST

Received: from DIRECTORY-DAEMON by SCS.SLAC.STANFORD.EDU with PMDF#10283; Sun, 21 Feb 1993 16:40 PDT

Received: from SLACVM.SLAC.STANFORD.EDU (MAILER@SLACVM) by SCS.SLAC.STANFORD.EDU with PMDF#10283; Sun, 21 Feb 1993 16:39 PDT

Received: from SLACVM.BITNET by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 2505; Sun, 21 Feb 93 16:39:33 PST

Date: Sun, 21 Feb 1993 15:45:00 -0800

From: "Joan M. Winters" <WINTERS@SLACVM.SLAC.Stanford.EDU>

Subject: WWW 193 Installable Disk Now

Sender: "SLAC WorldWideWeb (WWW) Discussion List" <WWW-L@SLAC.Stanford.EDU>

To: Multiple recipients of list WWW-L <WWW-L@SLACVM.SLAC.Stanford.EDU>

Reply-to: "Joan M. Winters" <WINTERS@SLACVM.SLAC.Stanford.EDU>

Message-id: <8F47B97D10400E9F@SCS.SLAC.STANFORD.EDU>

X-Envelope-to: ADDIS@SLACVM.SLAC.Stanford.EDU, AGO@SLACVM.SLAC.Stanford.EDU, CRANE@SLACVM.SLAC.Stanford.EDU, GALIC@SLACVM.SLAC.Stanford.EDU, WINTERS@SLACVM.SLAC.Stanford.EDU

X-To: BILLIE@SLACVM.BITNET, WWW-L@SLACVM.BITNET

Folks - As discussed, I've made WWW 193 an "install" disk named WWWNEWS (as distinct from WWW 192, the "install" name of which is WWW). WWW 193 is intended for use at this time primarily by the Service Desk folks to install news articles from remote sites, e.g., APS and SSC, as differentiated from WWW system-related, production files like code and the SLAC front page, which go on WWW 192.

Since WWW 193 is a production disk, I've made the defaults a bit different from those for the WWWTEST 192 "install" disk with which you may be familiar. Both require ownership of files installed, except for users on the STAFF list, though it's usually a good practice for them, too. (According to Billie, the Service Desk people all plan to install from one userid, APSNEWS.) WWWNEWS also prompts for the multi-write password, has fewer backups, and no VM NEWS setup of its own. (Use the system-wide one, or perhaps WWWTEST's, if any NEWS announcement is necessary.)

So, to install on WWW 193:

INSTALL WWWNEWS ADD fn ft fm (OWN ...  
<enter password in response to the prompt>

is a typical sequence.

N.B.: Bebo is in the process of changing WWW 193's multi-write password to something relatively secure but memorable and will let us know about it when it's ready.

On a related topic:

I would like to change WWW 192's "install" defaults to be more like WWW 193's than they are now, since both are production disks. Right now, WWW 192 is set up more like WWWTEST 192, which supports rapid prototyping (quite a different style and risks from production). I would, however, set the number of backups higher than WWW 193's.

Bebo and I have also discussed moving all production code from WWW 191 to WWW 192 (as was done for the Hot Printers). This would automatically provide all the benefits of INSTALL like a HISTORY log and simplify the number of places to look. Also, any 191 disk tends to collect single-user files (like WWW LASTNEWS) that may prove confusing. Right now, we seem to have duplicates of RUNDAEMO EXEC and HTDAEMON MODULE on WWW 191 and 192.

Are these changes O.K. with everyone?

Joan

==:B:==

==:T:== 02/20/93 15:14 COTTRELL Disk Space for WWW

Received: by SLACVM (Mailer R2.08 R208004) id 7989; Sat, 20 Feb 93 15:14:55 PST

Date: Sat, 20 Feb 1993 15:12 -0800 (PST)

From: COTTRELL@SLACVM

To: ADDIS@SLACVM

cc: BOEHEIM@SLACVM

Subject: Disk Space for WWW

Best way to get disk space for Web on Unix is to send a "formal" Email request to Chuck Boehiem so he can add it into future budgettting. He will probably need to know how much you need now (next few weeks), soon (next 6 months), long term (FY 94), and far distant future, and what it is neede for.

==:B:==

==:T:== 03/01/93 16:04:15 >WWWLIST There will be no WWW meeting this week.

Date: Mon, 01 Mar 1993 15:59 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD, SUZANNE@SLACVM, VANI@SLACVM, KINNEYT@SSCVX1, DADE@SSCVX1, MFSOR@SLACVM, RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu

Subject: There will be no WWW meeting this week.

There will be no WWW meeting this week. (Too many wizards away) Let's plan a working meeting for next week, 10 March at 4:00 pm.

Please let me know if you won't be able to attend.

==:B:==

==:T:== 03/08/93 09:49:23 >BO Bebo White can indeed give the WWW presentation

Date: Mon, 08 Mar 1993 09:44 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: GA.SBP@STANFORD

cc: BEBO@SLAC.STANFORD.EDU

Subject: Bebo White can indeed give the WWW presentation

at 4:30 on Tuesday. Sorry for delayed answer but he was away

last week giving a talk on WWW at SHARE.

He'll give you an abstract and some biographical info.

Cheers, Louise

P.S. George is away for a while..his mother is terminally ill.

==:B:==

==:T:== 03/08/93 09:52:45 >TONYJ Question

=====  
Date: Mon, 08 Mar 1993 09:49 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: TONYJ@SLACVM

Subject: Question

Tony, Bebo is going to give a short WWW talk at the SPIRES Workshop on 23 March. Are you planning to check in at SLAC any time before that date to answer a couple of questions in person?

George, by the way, is away for a while...his mother is terminally ill so we're running on autopilot.

Cheers, lxa

==:B:==

==:T:== 03/08/93 13:10:00 >BEBO Tonyj will be here this Wednesday ... let's try to get together

=====  
Date: Mon, 08 Mar 1993 13:08 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: BEBO@SLACVM

Subject: Tonyj will be here this Wednesday ... let's try to get together

with him...maybe I can talk him into coming to the W3 meeting but i think he'll be too busy.

cheers, -L

==:B:==

==:T:== 02/18/93 09:29 LIBRARY postscript viewing tomorrow

=====  
Received: by SLACVM (Mailer R2.08 R208004) id 3313;  
Thu, 18 Feb 93 09:29:36 PST

Date: Thu, 18 Feb 1993 09:29 -0800 (PST)

From: LIBRARY@SLACVM

To: ADDIS@SLACVM

Subject: postscript viewing tomorrow

Forwarded-from: LIBRARY

- - - - Forwarded Text - - - -

Date: Thu, 18 Feb 1993 09:16 -0800 (PST)

From: LIBRARY@SLACVM

To: TONYJ@SLACVM

Subject: postscript viewing tomorrow

Hi Tony, Several of the science librarians from Stanford U. are visiting the SLAC Library tomorrow and I would like to show them WWWmidas with postscript viewing. If you don't have the time to fix the problem from our x-terms, could you host a small demo in your office between 2 and 4? (Friday 19th)? (Naturally, I'd prefer to do it up here...since

I want to get started on the next step which is automatically providing Postscript viewing for at least the last month's worth of bulletin board papers.)

I used WEB2 from my color x-term...at great length last evening. It blew up once on one of the WAIS connections but performed well for the things we tried.

Cheers, Louise

==:B:==

==:T:== 02/17/93 23:32 M.T.Hami @loughbo High performance networking & distributed systems archive

=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 0889; Wed, 17 Feb 93 23:32:19 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Wed, 17 Feb 1993 23:32 PDT

Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA18544; Thu, 18 Feb 1993 08:05:48 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA16138; Thu, 18 Feb 93 07:45:12 MET

Received: by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA17732; Thu, 18 Feb 1993 08:02:10 +0100

Date: 17 Feb 93 18:04

From: Martin Hamilton <M.T.Hamilton@loughborough.AC.UK>

Subject: High performance networking & distributed systems archive

To: www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH

Reply-to: Martin Hamilton <M.T.Hamilton@loughborough.AC.UK>

Message-id: <Pine.3.05.9302171704.D1502-b100000(a)genie.lut.ac.uk>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU

RFC-822-HEADERS:

X400-Recipients: non-disclosure;;

Original-Sender: Martin Hamilton <M.T.Hamilton@loughborough.ac.uk>

Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

MIME-Version: 1.0

=====  
Announcement  
=====

Access to the high performance networking & distributed systems archive at Loughborough is now available on an experimental basis via the World-Wide Web system. Its address is:

<http://genie.lut.ac.uk:80/>

Please feel free to add this server to any lists/bookmarks you may keep of this sort of thing. See below for feedback & bug reporting.

About the archive

=====

(from <http://genie.lut.ac.uk/DS-Archive/HighPerformanceNetworking.html>)

This archive contains information which may be relevant to high speed networking and distributed systems researchers - papers and technical reports authored at this site and elsewhere, details of forthcoming conferences, contact names in the field, general notices, e.g. job adverts and new journals, details of relevant publications, overviews and documentation of significant distributed computing projects plus freely distributable packages and bibliographies.

Some of the information in this archive is copyright protected - where this is the case it is indicated.

The archive is accessible through gopher (gopher://hill.lut.ac.uk), anonymous ftp (ftp://hill.lut.ac.uk), and now directly via World-Wide Web (http://genie.lut.ac.uk).

## Feedback

=====

The archive is run on a volunteer basis by Jon Knight, please contact him if you have any comments about the archive contents or would like to contribute to it.

The hypertext markup was produced by Martin Hamilton. Please contact him if you have any trouble with WWW access, or any suggestions.

Jon Knight <J.P.Knight@lut.ac.uk>

&

Martin Hamilton <M.T.Hamilton@lut.ac.uk>

==:B:==

==:T:== 01/07/93 06:42 GALIC "(using WWW" should now work in all databases available via WWW ...

=====

Received: by SLACVM (Mailer R2.08 R208004) id 5239;

Thu, 07 Jan 93 06:42:14 PST

Date: Thu, 07 Jan 1993 06:23 -0800 (PST)

From: "H. Galic"

<GALIC@SLACVM>

To: ADDIS@SLACVM

Subject: "(using WWW" should now work in all databases available via WWW ...

...except for the STORES, BIBLIO, and NETWORKING databases shown on the WWW screen. (I also didn't touch SEMINARS database, because there is probably a special WWW procedure for that database.) The real check will become available when George changes the default format for WWW. Pls let me know when that happy event is scheduled for.

By the way, the use of WWW in line-mode to access SLAC databases may cause severe depressions, even a suicide. Someone should really do something, and urgently. Just try several random searches, jumping from one database to another...

Cheers, Harv.

==:B:==

==:T:== 01/21/93 23:22 GALIC WWW format for ABSTRACTS

=====

Received: by SLACVM (Mailer R2.08 R208004) id 3859;

Thu, 21 Jan 93 23:22:49 PST

Date: Thu, 21 Jan 1993 23:08 -0800 (PST)

From: "H. Galic"

<GALIC@SLACVM>

To: ADDIS@SLACVM

Subject: WWW format for ABSTRACTS

Louise,

the format is almost constructed. The remaining problem is the length of the href statement for retrieving an abstract. It is displayed as, e.g.,

</xmp>

<a href=http://vm.slac.stanford.edu:0080/FIND/hep?fin+bull+HEP-LAT+9210023+(using+abs>Abs</a><xmp>

and this is probably not going to be swallowed by WWW. The break at '>' didn't help. What to do with such a long command? The WWW format in ABSTRACTS is a load format for the newly-constructed QSPIRES format. I also added a BRIEF format (all for the use via QSPIRES server).

The ABSTRACTS is not yet recognized by WWW, and I didn't have a chance to test the new format.

Tomorrow may be the day when my wife is leaving the hospital. In that case, I'll have to get somewhere an oxygen-supply device and some other gadgets which she'll have to use at home. Probably will not have time to come to SLAC, but may be able to check e-mail and read your suggestions related to the length of href.

Cheers, Harv.

==:B:==

==:T:== 01/25/93 09:55 CRANE probtrak added to www

Received: by SLACVM (Mailer R2.08 R208004) id 1627;

Mon, 25 Jan 93 09:55:25 PST

Date: Mon, 25 Jan 1993 09:54 -0800 (PST)

From: CRANE@SLACVM

To: ADDIS@SLACVM

Subject: probtrak added to www

I've added probtrak and networking to www. The only thing I can't figure out how to check is if it tells the user he can't access it from a non-slac node.

It should be doing that, I don't have an account to try it from.

George

==:F:== Forward from ADDIS

Date: Mon, 25 Jan 1993 10:34 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: GALIC@SLACVM

Subject: probtrak added to www ... can you check this from CERN

Forwarded-from: ADDIS

Hi Harv, can you check this from CERNVM...also, please remind me of our current password there. Cheers, lxa

==:B:==

==:T:== 01/27/93 07:34 timbl @nxoc01. New release of unix server for WWW "httpd"

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 7127; Wed, 27 Jan 93 07:34:23 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Wed, 27 Jan 1993 07:34 PDT

Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA22559; Wed, 27 Jan 1993 16:26:38 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA18333; Wed, 27 Jan 93 16:07:08 MET

Received: from www3.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA22209; Wed, 27 Jan 1993 16:22:47 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA02807; Wed, 27 Jan 93 16:20:57 +0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Wed, 27 Jan 93 16:20:57 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: New release of unix server for WWW "httpd"

To: www-talk@nxoc01.CERN.CH, www-announce@nxoc01.CERN.CH

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9301271520.AA02807@www3.cern.ch>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU



The 0.9b release of the basic WWW daemon (httpd) contains a few bug fixes, and the ability to browse directories. Note that the 0.9a release was buggy and should not be used (Thanks to Jon Streets/FNAL and Peter Lister/Cranfield for pointing this out.)

The new release is available by anonymous FTP as usual on host info.cern.ch, in /pub/www/src/WWDaemon\_0.9b.tar.Z. You also need /pub/www/src/WWWLibrary\_1.0a.tar.Z.

New in this release:

- Directory browse: if a directory name is given, it is returned as hypertext. This is optional: it can be always enabled, always disabled, or enabled only for directories containing a file named ".www\_browsable".
- README inclusion: When a directory contains a README file, the file may be included either linked to the list with all the other files, or may have its text embedded before or after the list.

By using these features, a WWW server can be set up to serve existing trees containing for example plain text files with very little effort.

The online documentation gives the new command line options -dy -dn -ds -db -dt and -dr which control the directory browsing.

(The server has been tested on the NeXT. Any bugs to me ASAP please!)

Tim Berners-Lee

---

Tim Berners-Lee	timbl@info.cern.ch
World Wide Web team leader	(NeXTMail is ok)
CERN, CN Division	Tel: +41(22)767 3755
1211 Geneva 23, Switzerland	Fax: +41(22)767 7155

==:B:==

==:T:== 01/28/93 11:16 BEBO The SLAC Front Page When Viewed From CERN

=====  
 Received: by SLACVM (Mailer R2.08 R208004) id 5659;  
 Thu, 28 Jan 93 11:16:28 PST

Date: Thu, 28 Jan 1993 11:15 -0800 (PST)

From: "Bebo White"

<BEBO@SLACVM>

To: ADDIS@SLACVM, GALIC@SLACVM

Subject: The SLAC Front Page When Viewed From CERN

I just tried from CERN a few minutes ago and the page that has the Particle Handbook et. al. still comes up messed up.

Bebo

==:B:==

==:T:== 02/02/93 11:28 BEBO WWW Disks & APSNEWS

=====  
 Received: by SLACVM (Mailer R2.08 R208004) id 6749;  
 Tue, 02 Feb 93 11:28:00 PST

Date: Tue, 02 Feb 1993 11:26 -0800 (PST)

From: "Bebo White"

<BEBO@SLACVM>

To: ADDIS@SLACVM

Subject: WWW Disks & APSNEWS

I've given WWW a 5 cyl 193, moved all the APSNEWS files to that disk, erased them where they were, restarted WWW and

all appears to working fine..

Bebo

==:B:==

==:T:== 02/04/93 04:19 timbl @nxoc01. Re: problem with WWW on NeXT (why it crashes)

=====  
 Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTTP id 6931; Thu, 04 Feb 93 04:19:46 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 4 Feb 1993 04:19 PDT

Received: from www3.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA21158; Thu, 4 Feb 1993 13:19:22 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA00844; Thu, 4 Feb 93 13:16:27 +0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Thu, 4 Feb 93 13:16:27 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: Re: problem with WWW on NeXT (why it crashes)

To: Louise Addis <ADDIS@SLACVM.SLAC.Stanford.EDU>

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9302041216.AA00844@www3.cern.ch>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU

Louise,

Yes ... strange. I notice that it is related to the <plaintext> so that if I replace <plaintext> with <pre> (which means escaping the & to &amp; as well) then it works. <pre> is to be preferred to <plaintext> anyway. But it should still work.

As it happens I am working on a new version of the NeXT editor which is based on the same data access code library as the line mode browser, and it doesn't crash. I'd prefer to get this version out than to chase bugs in code I will throw away, so I hope you can work around it (perhaps with per, a good change anyway) until the new one is out. I can't say when that will be.

Tim

==:F:== Forward from ADDIS

=====  
 Date: Mon, 08 Feb 1993 18:22 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ginsparg@xxx.lanl.gov

Subject: Re: problem with WWW on NeXT (why it crashes)

Forwarded-from: ADDIS

Paul, Here is the mail I got from Tim Berners-Lee about the crash problem on the NeXT. I changed the HEP stuff on 0080 so it doesn't crash the NeXT and will work on the other SPIRES index files... Anyone coming in on 0080 ought to get to HEP ok....some of the other choices still crash but will be changed to workaround shortly.

As you can see, Tim is working on a new version of the NeXT browser but not saying when it will be ready.

All the released browsers for WWW are available via info.cern.ch. I'll forward your mail to TonyJ just in case he wants you to beta test a newer version of Midas when you get to Santa Barbara (if you're interested).

I've been out of commission for a couple of days with the flu...but back now to reams of e-mail. How do you manage to respond so instantly to everything!? Cheers, Louise

P.S. Just got the latest DOE 'strategic plan' for using SGML for 'Electronic Exchange of Scientific and Technical Information (STI)'.. shall I slip you a copy?

==:F:== Forward from ADDIS

=====  
Date: Thu, 11 Feb 1993 18:05 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: GALIC@SLACVM  
Subject: Re: problem with WWW on NeXT (why it crashes)

Forwarded-from: ADDIS

==:B:==  
==:T:== 02/19/93 11:29:24 >BEBO new mac www browser fails on SPIRES searches  
=====

Date: Fri, 19 Feb 1993 11:27 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: BEBO@SLACVM  
Subject: new mac www browser fails on SPIRES searches

==:B:==  
==:T:== 03/10/93 08:41:15 >WWWLIST working meeting, WWWizards, today, Wed. 10 Mar, 4:00 pm, Green Rm.  
=====

Date: Wed, 10 Mar 1993 08:21 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM, CLANCEY@SLACVM, jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD, SUZANNE@SLACVM, VANI@SLACVM, KINNEYT@SSCVX1, DADE@SSCVX1, MFSOR@SLACVM, RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu, RFC@SLACVM  
Subject: working meeting, WWWizards, today, Wed. 10 Mar, 4:00 pm, Green Rm.

Agenda:

Moving a version of the 'test' front page into production  
Demo of WWWCIT, a new feature in the HEP search  
Progress report on PPBBP (project to postscript bulletin board papers)

==:B:==  
==:T:== 03/13/93 15:47:02 >GMIEG NeXT problems  
=====

Date: Sat, 13 Mar 1993 15:44 -0800 (PST)  
From: "Louise Addis" <ADDIS@SLACVM>  
To: GMIEG@SLACVM  
Subject: NeXT problems

Hi George, I am away from the lab from 15-19th...but Tina Neubert is having some trouble with that PPF folder. She'll be in on Tuesday and will try to find you.

I also couldn't access the datasets in PPF folder from WWW. We're almost there but not quite.

TeXinfo is very interesting...Marv printed a manual and we looked at the document several ways.

See you when I get back. -Cheers, Louise

==:B:==

==:T:== 03/10/93 03:17 timbl @nxoc01. World-Wide Web documentation in paper form

=====  
Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 8901; Wed, 10 Mar 93 03:17:58 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Wed, 10 Mar 1993 03:17 PDT

Received: from nxoc01.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA08992; Wed, 10 Mar 1993 12:13:28 +0100

Received: from dxmint.cern.ch by nxoc01.cern.ch (NeXT-1.0 (From Sendmail 5.52)/NeXT-2.0) id AA07295; Wed, 10 Mar 93 11:52:01 MET

Received: from www3.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA08707; Wed, 10 Mar 1993 12:09:41 +0100

Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA06896; Wed, 10 Mar 93 12:04:03 +0100

Received: by NeXT.Mailer (1.87.1)

Received: by NeXT Mailer (1.87.1)

Date: Wed, 10 Mar 93 12:04:03 +0100

From: Tim Berners-Lee <timbl@www3.CERN.CH>

Subject: World-Wide Web documentation in paper form

To: www-announce@nxoc01.CERN.CH, www-talk@nxoc01.CERN.CH, Dennis Nicholson - BUBL <cijs03@vaxa.strath.AC.UK>, iiir@merit.edu, lis-link@mailbase.AC.UK, nir@mailbase.AC.UK

Reply-to: timbl@nxoc01.CERN.CH

Message-id: <9303101104.AA06896@www3.cern.ch>

X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU, meb@SLACVM.SLAC.Stanford.EDU

For all of you that want to take the information about the web on the plane with you and don't have a modem for your airphone, or for those who simply love the rustle of paper, here are some of the key documents about the web and how it works in paper form.

Each document is in available postscript (.ps) and also in plain ASCII text (.txt) form, in the anonymous FTP archive site at info.cern.ch. (FTP to info.cern.ch, log in as "anonymous", give your user@host as password, then change directory to pub/www/doc )

line-mode-guide.ps	Instructions for running the line-mode client
www-server-guide.ps	Instructions for running a server
http-spec.ps	The HTTP protocol used by new W3 servers
html-spec.ps	The Hypertext Markup Language (HTML)

The last three have recently been revised.

If anyone has any comments on these, please send them to me or to the www-talk@info.cern.ch discussion list if you are a member. The HTML and later the HTTP specs are headed in the Internet Draft - RFC direction so comment at this stage is appreciated. The documents are all generated from the hypertext, and so apart from the specs which are designed to be linear documents, they made read a little strangely. None of them is perfect, but the pressure has been so high for printed documentation that we distribute them as they are.



Date: Fri, 19 Mar 1993 12:17 -0800 (PST)
From: "Louise Addis"
To: carlson@gmc.lanl.gov
Subject: WWW - physics abstracts server, etc.

<ADDIS@SLACVM>

Hi Joe, I heard from Tim B-L that you're interested in what we're doing about the bulletin boards on WWW.

The answer is a fairly long one...briefly we have a database called abstracts which is linked to the HEP database. All the new abstracts are ingested each day and we also keep records there of what macro package is used, whether or not the figures have been ordered, received, details about any TeX problems, and where the postscript version of the paper is stored. Our plan at present is, where possible, to make a postscript version of each paper viewable thru w3 (in collaboration with other labs).

We've had the abstracts database on our test version of the SLAC WWW front page for a while but just recently added it to the production version. Do you have the SLAC Front page on your W3? If you have the Midas test browser, you can choose the 'anytime' option under 'physics bulletin boards' and try viewing a postscript example by doing a FIND HEPH 9301291 and clicking on VIEW. If it is a recent paper, you can also click on 'paper' and get the TeX source from whatever bulletin board is appropriate. We'll soon be able to automatically decompress...but that's not due til April. (Of course, your Gopher server handles all that anyway.)

At present, all the papers are searchable by author, title words and all words in abstracts...and the abstracts are viewable from HEP and from the ABSTRACTS database. (There are several other search points like date-added and Macro..but we've only been tracking the macro packages since 1/93.) Since it is thru SPIRES, the search is full Boolean (i.e., AND, AND NOT, OR).

To put the bulletin boards in perspective, we added 19,000+ records to the HEP database last year. Of these, about 2700 had bulletin board numbers. We expect the BB number to jump again sharply this year. (We're watching 9 bbs at present and we take everything from all of them except cond-mat...though of course all the abstracts go in the abstracts database whether or not we actually TeX them for HEP.)

I'd sure like to collaborate with you on all this. Maybe we can talk on the phone this week (I'll be around sporadically since there's a workshop...but will try to call).

Cheers, Louise A.
==:F:== Forward from ADDIS

Date: Sun, 21 Mar 1993 15:31 -0800 (PST)
From: "Louise Addis"
To: timbl@www3.cern.ch
Subject: WWW - physics abstracts server, etc.

<ADDIS@SLACVM>

Forwarded-from: ADDIS

Hi Tim, Here's my answer to Joe Carlson...thanks for passing along his question. Re the bulletin board papers, the figures remain a problem...though we do get most of them in machine readable form these days, thanks to our NeXT fax. Cheers, Louise

==:B:==
==:T:== 03/18/93 02:38 timbl @nxoc01. Re: WWW and Ginsparg preprint services

Received: from SCS.SLAC.STANFORD.EDU by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTMP id 6507; Thu, 18 Mar 93 02:38:10 PST

Received: from dxmint.cern.ch by SCS.SLAC.STANFORD.EDU with PMDF#10283; Thu, 18 Mar 1993 02:38 PDT  
Received: from www3.cern.ch by dxmint.cern.ch (5.65/DEC-Ultrix/4.3) id AA12962; Thu, 18 Mar 1993 11:37:51 +0100  
Received: by www3.cern.ch (NX5.67c/NX3.0S) id AA01275; Thu, 18 Mar 93 11:37:14 +0100  
Received: by NeXT.Mailer (1.87.1)  
Received: by NeXT Mailer (1.87.1)  
Date: Thu, 18 Mar 93 11:37:14 +0100  
From: Tim Berners-Lee <timbl@www3.CERN.CH>  
Subject: Re: WWW and Ginsparg preprint services  
To: carlson@gmc.lanl.gov (Joe Carlson)  
Cc: timbl@nxoc01.CERN.CH, romig@cis.ohio-state.edu, addis@SLACVM.SLAC.Stanford.EDU  
Reply-to: timbl@nxoc01.CERN.CH  
Message-id: <9303181037.AA01275@www3.cern.ch>  
X-Envelope-to: addis@SLACVM.SLAC.Stanford.EDU

Joe,

I am very glad you are doing this work, as people have been after me about it for a while now.

#### TECHNICALITIES

If you find on the web the unix manuals at Ohio State, those all are in hypertext and are WAIS indexed. I think (Gary?) who runs it did some modes to the

gateway and made the scripts to hyperize the manual files. Steve Romig (Cc'd) is the only address I found with a quick browse.

The easiest thing is to run a wais gateway on a separate port along side the normal WWW server. The WAIS gateway is not yet converted into the new (2.0) software, but when it is then it will be easy to make a part of your hypertext space on one server into WAIS space using the rule file.

With respect to the conversion, there are many many people who have done similar things, but each hypertext view is a rather custom thing, and so there is no generic product to do what you want.

For generation of the html from directory listings for example see the "Tools for information providers"  
<http://info.cern.ch/hypertext/WWW/Tools/Overview.html>  
which you could take as a start for generating the abstracts.

#### SLAC

As for any efforts at SLAC to do the same thing, I suggest you contact Louise Addis (also CC'd) who knows what is going on and encourages (coordinates?) the WWWizards there.

#### REPLICATION

Yes in the end the info ought all to be duplicated but so far in fact the server seems to have a very small CPU overhead, and network traffic is in fact a small part of the whole. When replication comes it will have to be very automatic and very reliable. There has been some discussion on the net but it is not needed quite yet I think.

What you propose will be a great service and people here will love it. I am in the US (Online 93, FNAL & IETF)

20/Mar to 4/April and will be able to read mail some of the time only.

Tim Berners-Lee

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Begin forwarded message:

From: carlson@qmc.lanl.gov (Joe Carlson)  
Subject: WWW and Ginsparg preprint services  
To: timbl@nxoc01.cern.ch  
Date: Wed, 17 Mar 93 13:11:28 MST  
In-Reply-To: <no.id>; from "Tim Berners-Lee" at Dec 15, 92 9:11 am  
X-Mailer: ELM [version 2.3 PL8]

Dear Tim,

In my 'spare' time, I have been experimenting with WWW and the possibilities of adding a Web server similar to the LANL Physics Information Service (Gopher) I have set up to deal with the

Ginsparg-type preprint services. Obviously the Web adds some very useful

functionality to what is available through Gopher. However, I do have a few

questions:

(1) Do you know if anyone there or at SLAC is working on a similar effort?

I do not want to duplicate the efforts of others, but on the other hand

if others are interested some collaboration could be mutually beneficial.

Eventually I think the load will be such that duplicate servers should

be set up at various spots in the world.

(2) I have a prototype system more or less working. However, it is currently lacking one important functionality that is available through

the Gopher service. What I want to do is to provide a WAIS index of the abstracts. Upon executing a search, though, I do not wish to simply

return a list of abstracts themselves, since these are merely plain-text

documents. What I would like is to return a hyper-text document that returns pointers to hypertext documents that are to be constructed on-the-fly from the plain-text abstracts. Specifically, in the abstract

itself I want to provide links to the paper, to figure files, to that months listing of preprints, etc.

My question is, do you know of anything similar that has already been constructed? I know I could write a server to provide this functionality, but I don't want to reinvent the wheel. Basically I need two things: (1) to provide links to an executable which constructs

hypertext from text on-the-fly, and (2) to execute a WAIS search

which provides pointers to such executables rather than to the document itself.



The first seems simple to incorporate into a server, but I'm not so certain about the second item. I'd greatly appreciate any help you can give.

Also, if you think there are others I should contact (at SLAC or elsewhere)

please let me know.

Regards,  
Joe Carlson

==:B:==

==:T:== 03/23/93 19:55:33 >COTTRELL Bebo's talk

=====  
Date: Tue, 23 Mar 1993 19:51 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: cottrell@unixhub.slac.stanford.edu

Subject: Bebo's talk

Hi Les, Bebo gave a really nice talk about W3 at the SPIRES workshop this afternoon! He got a good hand at the end (it's an audience that only claps when they mean it and one speaker got no applause at all) and lots of interest afterwards.

Cheers, -Louise

==:B:==

==:T:== 04/05/93 15:18:27 >WWWLIST WWWizards meeting, 7 April 1993, 4 PM, GREEN ROOM

=====  
Date: Mon, 05 Apr 1993 15:17 -0800 (PST)

From: "Louise Addis"

<ADDIS@SLACVM>

To: ADDIS@SLACVM, BEBO@SLACVM, PFKEB@SLACVM, TONYJ@SLACVM, CRANE@SLACVM, WINTERS@SLACVM, GALIC@SLACVM, RCHAN@SLACVM, ILSE@SLACVM, jonwa@unixhub.slac.stanford.edu, NIV@SLACVM, SLAVKO@STANFORD, SUZANNE@SLACVM, VANI@SLACVM, KINNEYT@SSCVX1, DADE@SSCVX1, MFSOR@SLACVM, RENATA@SLACVM, cottrell@unixhub.slac.stanford.edu

Subject: WWWizards meeting, 7 April 1993, 4 PM, GREEN ROOM

==:B:==

Louise Correspondence with American Physical Society  
27/09/1993

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