Need to get together list of Network equipment we could make good use of.

So far I have:

Kalpana Etherswitches (Marty)
Cisco 7000, AGS+, FDDI interfaces (Marty)
LeCroy ?, Sniffers, LANalyzers (Marty, Fred)
Wire speed SNMP Ethernet bridges (Marty, Fred)
Combiret half bridges (Don)
Sun Sparcserver WWW & Info server (Bebo)
Sum Mbone routers

Other things (not particularly networking)

PCs, Macs, Xterminals
8mm carousels

What is the model number of the LeCroy?
What about FDDI hub/switches/concentrators?
What else?

I have talked again to Greg and they have a lot of the above equipment.
I will talk to Bob Woods of DoE to find out how to pursue
Robert,

My apologies for my delay in filling you in on our Friday demo of WWW to John Kunze at Adobe (I've been out of commission for a few days).

We met from 1:00pm to 3:15pm at SLAC in one of the Computer Center's third floor lecture rooms. John Kunze of Adobe joined myself, Tony Johnson of SLAC who demoed the Midas browser and presented selected overheads from a lecture Tony has presented elsewhere, Paul Kunz of SLAC, Louise Addis (SLAC's librarian), and Pat Clancy of SLAC, who demoed the Mac Mosaic browser. The physical facility served well (Tony had a huge monitor running the X Window System on an RS/6000). We encountered no demo glitches (except CERN's server was down when we attempted access!) Each of the participants from SLAC made useful and relevant contributions to our discussion.

The demo went well, and accomplished our immediate goal, which was to familiarize John Kunze with WWW. In fact, my impression was that Kunze was astounded -- and perhaps confounded (more on that later) -- by WWW.

Kunze gave us a quick (and necessarily superficial) introduction to Adobe Acrobat. Louise invited Adobe to do a general presentation about Acrobat to a SLAC open audience at a date to be determined and Kunze expressed interest in that opportunity.

In response to a question from Paul, Kunze pointed out differences between an Acrobat pdf viewer and a PostScript previewer.

Early in the demo, Kunze asked about WWW's mechanism for "cross-document links" and Tony described the URL scheme, showing the syntax abstractly and then displaying the ASCII contents of an html file. Tony's description made clear that the URL scheme accomodated a variety of application protocols, not just hypertext documents. I'm
not sure Kunze grasped the significance of this point or saw relevance for Adobe (my impression only).

Kunze made clear (several times) that "At Adobe, we feel we have solved the cross-document hypertext problem." Kunze said Adobe did not want to provide cross-document hypertext capabilities in the Acrobat 1.0 release because an application has to be bullet-proof for commercial users. Kunze asked how WWW handles situations where a linked document is no longer available. Tony indicated that it is the responsibility of an author to be sure a document remains in place. And if a server is unavailable, it is no different from a situation network users routinely encounter accessing a file server. Kunze expressed dissatisfaction, saying that few commercial users have any experience with the use of computers for communication beyond perhaps electronic mail and Adobe feels problems such as that introduced by links to missing documents must be solved before an application will be accepted by commercial users. Tony mentioned the evolving URN standards efforts and suggested some of these issues are addressed by the URN scheme.

At this point in the demo, I'd say Kunze's interest was apparent, but not strong. It seemed to me that Kunze became much more interested when Tony began demonstrating Midas access to the SLAC SPIRES high-energy physics preprint database. Louise explained that LANL had initiated the archiving of physics papers in Tex format and SLAC set up a system of storing submitted papers in PostScript format. Louise indicated that over 100 papers a week are submitted to the database, all converted to PostScript format. Tony showed how the Midas browser can retrieve and display PostScript documents using the (non-Adobe) GhostScript PostScript previewer. Kunze was very interested and suggested the pdf format might better serve SLAC's purpose, since pdf files are more compact and can be searched for text strings using a pdf viewer. Louise indicated that about 10% of papers SLAC receives cannot be interpreted by GhostScript. Kunze recommended the Acrobat pdf Distiller and Louise expressed disbelief that it could accommodate all PostScript output. (Later, Kunze encouraged Louise to test the distiller and share any files that are especially difficult with Adobe's engineering team). Tony and Kunze then discussed, in very preliminary terms, the possibility of WWW browsers accommodating an Adobe Acrobat UNIX pdf viewer. Tony indicated that an Adobe UNIX pdf viewer must be able to direct imaging to a specific screen location (vs. monoplisizing a screen or window) and Kunze indicated that he though the Adobe Acrobat UNIX viewer would accommodate this requirement. Tony expressed interest in beta-testing the Adobe Acrobat UNIX viewer. Kunze indicated his interest, promising to send Acrobat PC and Mac versions to SLAC now and putting SLAC on the beta-test list for the UNIX version. The UNIX Acrobat 1.0 version will go to beta in mid-Nov or early Dec. Target platforms are (in order of anticipated release) 1) Solaris 1.0, 2) X server, 3) Display PS (RS/6000, SGI, DEC).

I stated that I felt getting WWW browsers to accomodate a pdf viewer was significant but felt that there'd also be value if Adobe's pdf format utilized the URL scheme for cross-document links. I pointed out that a facility for displaying a pdf file would be excellent, but it would be even better if hyperlinks encountered in a pdf file could be traversed out of the pdf file (this would require a browser that
parses both html and pdf files). I sensed resistance on Kunze's part on this point and felt he was not interested in pursuing this line of discussion. When I pressed him on this point later, he repeated that, "At Adobe, we feel we have solved the cross-document hypertext problem." When pressed further, he said Adobe had designed an architecture for cross-document hypertext. He did not say it had been implemented. When Tony asked if perhaps that meant Adobe could use the URL scheme, Kunze didn't say yes or no, but said, "Our syntax for cross-document references has not been formalized." I asked if Kunze thought the engineering team might like to learn more about the research the WWW community has conducted in this area and Kunze said, yes, he thought they'd be interested. The API for Acrobat version 2.0 is in alpha now, with release planned for April 1994, and Adobe would like comments.

After looking at the SPIRES database, we looked at O'Reilly Associates' GNN documents as an example of one of the first commercial endeavors using WWW. Kunze wanted to know if O'Reilly's colorful icons were "hotspots" and Tony demonstrated that, indeed, they were. Discussion ensued about the growth of the Internet, particularly in the past year. I pointed out that current estimates put 15 million people on the Internet, who are all potential users of WWW, though practical constraints reduce that number. Kunze wanted to know how many people use the SPIRES database and Louise indicated that some 5000 sites have connected to it. Kunze seemed to acknowledge this number as significant.

We concluded the demo by looking at the Honolulu Community College dinosaur exhibit using the Mac Mosaic browser.

Several action items came out of the meeting. SLAC invited Adobe to do a presentation about Acrobat to a SLAC general audience. Kunze invited Louise to submit difficult-to-interpret PostScript files for incorporation in the Acrobat QA test suite. Kunze agreed to send Acrobat 1.0 PC and Mac versions to SLAC. Kunze agreed to recommend SLAC for the Acrobat 1.0 UNIX beta list. Kunze agreed to discuss efforts to accommodate pdf viewers in WWW browsers with Robert Caillau at a scheduled 11/11/93 meeting, with discussion aimed at formulating and coordinating a process of WWW developers working with Adobe to accommodate pdf viewers in WWW browsers. Kunze indicated he'd like Adobe's Acrobat engineering team to see a WWW demo and Tony Johnson indicated SLAC would be happy to host the event. Kunze indicated the Acrobat engineering team would like comments about the proposed Acrobat 2.0 API (we can discuss this further at the 11/11/93 meeting).

To close, I'd like to share my analysis of the dynamics of the meeting, emphasizing that these are only my own conjectures, and may not reflect reality. Take these comments with a grain of salt.

First, I believe Kunze was astounded by how well WWW works, and how slick it looks, and secondly, perhaps confounded, because the academic/research community developed something like WWW which goes far beyond anything Adobe has yet implemented. I believe Kunze sensed a tremendous sales opportunity for Acrobat when he saw the SLAC SPIRES database and Louise mentioned 5000 sites use it. Obviously, Adobe would be well served if many physicists at SLAC and elsewhere
were to drop GhostScript in favor of an Adobe-supplied UNIX pdf viewer. Kunze is uncomfortable discussing the possibility of Adobe using the URL scheme for cross-document references; if I were to guess at a reason, it might be that he's concerned that Adobe's engineering team has assured him they've solved the problem but after seeing WWW in action, maybe he's wondering if they've picked the right solution. Kunze seemed postively unfriendly towards me when I pushed our URL agenda when he was busy pushing his pdf viewer sales agenda. Knowing that Kunze's role is that of a product marketing manager, and that Adobe's engineering teams operate very independently of the marketing organization, I'd guess that Kunze is aware that he has very little influence over the cross-document reference syntax that Adobe adopts, and does not want to feel a sale of Acrobat pdf viewers to physicists is contingent on Adobe accommodating URLs.

Whether or not my conjectures are accurate, I'd recommend the following strategy. ITEM ONE: Work with Kunze at the 11/11/93 meeting to set up a formal mechanism for accommodating the Acrobat pdf viewer in WWW browsers. This might mean identifying the WWW browser developers most interested in a pdf capability and introducing them to Adobe, and arranging their ongoing access to Kunze or a designated Adobe developer support person. We should recognize that Adobe will be motivated by potential sales of Acrobat pdf viewers, and we can offer to find ways to assist the Adobe sales efforts through vehicles such as arranging for Adobe people to present Acrobat to large WWW user sites such as SLAC. ITEM TWO: At the earliest opportunity, we must develop a channel of communication with the Acrobat engineering team if we are to influence Adobe's choice of a cross-document reference syntax. Kunze is not the right person for this. We should seek an introduction to the engineering team at the 11/11/93 meeting and schedule a WWW demo at SLAC for the engineering team as soon as possible. Access to the engineering team is the only way to advance this aspect of our agenda.

Just to recap, I believe the interests of the Internet community are best served by a three-item agenda. First, dialog with Adobe so that WWW browsers can call Acrobat pdf viewers. Second, adoption by Adobe of the URL (or URN) scheme for globally distributed hypermedia links. Third, development (by Adobe, WWW developers, or others) of browsers that can traverse hypermedia links encountered in either html or pdf files. So far, we've made progress on the first item; encountered some initial challenges on the second item; and have not yet even broached the third agenda item.

I'd welcome your comments or reactions.

Regards,
Daniel Kehoe
Bebo,

> I am trying to use MacGS as a postscript document viewer with the
> NCSA MacMosaic WorldWideWeb browser. After a number of false
> starts, I've got it working (sort of).
>
> My major question is how to get MacGS to launch automatically a PS
> document. In other words, why, if I double-click on a PS document
> and launch MacGS, am I still forced to open that document in order
> to view it.

Actually, I'm surprised that double-clicking a PS document even
invokes MacGS -- I didn't include a 'TEXT' FREF in the BNDL resource!
However, given MacGS' implementation, the behavior you want would
either be difficult, or impossible, to implement -- it depends on
whether MacGS could pre-empt Ghostscript after GS initialization and
when GS is in a "neutral" state. Although I'll add this on my list of
things to do, because I currently have other distractions, I'm not
making any promises.

> Bebo White
> Stanford Linear Accelerator Center

...Martin Fong

mwfong@nisc.sri.com
Newsgroups: comp.infosystems.www

From: iagoldbe@undergrad.math.uwaterloo.ca (Ian Goldberg)
Subject: THREADED NEWSREADING ON THE WEB AVAILABLE!
Date: Mon, 1 Nov 1993 20:06:59 GMT

The Computer Science Club of the University of Waterloo is pleased to
announce the location of its new home page:


Among the features:

THREADED NEWSREADING!!!

Yes, no longer do you have to see just a list of subjects! Each newsgroup
has a "thread page" with trn-style thread trees. As well, the Usenet browser
lets you traverse the entire Usenet hierarchy, just to see what's out there.

ADDED BONUS: The "junk" newsgroup (where all the news that we don't get
goes) is converted into a hierarchy, for convenient reading of
non-newsgroups. (It _is_ a little slow, though).

BUT NOTE: Though the news threader will serve you the thread pages, no matter
where you're coming from, they will reflect the articles available at UW.
It will _not_ serve you news if you are not from UW (because it just
returns news:articleid URLs, and your client won't be able to connect to
the UW news server). You can, however, hope the newsgroups are similar
enough (yeah, right) that the thread pages are useful, or you can email
me to get the source for the threader so you can run it yourself.

HOW TO: To see the thread pages, you can:
1. Connect to the CSC Home Page (URL above), and choose the appropriate
   options from there.
2. Use the URL http://descartes.uwaterloo.ca:7890/newshier to get to the
   Usenet hierarchy browser.
3. Use the URL http://descartes.uwaterloo.ca:7890/webthread/group.name to
   get the thread page for the group group.name.

ADDENDUM: This newsreader has been tested with Lynx and XMosaic, and seems to
work fine on both. (Not tested on XMosaic 2.x; I wish I had it...)

Please send any questions, comments, or radical doubts to the address below:

------------------
Ian Goldberg  University of Waterloo PM+CS
President, Computer Science Club
iagoldberg@undergrad.math.uwaterloo.ca

foo(a) { return (a?foo(a&a-1)+1:0); }
I've been working on WAIS index support for the gn gopher/http server. As a by-product I wrote a short program which may be of use to people using other servers to allow them to use WAIS indexes. It's nothing fancy and hasn't been well tested but might be a start for someone wanting to implement WAIS indexing.


Here's the README:

Wais2html is a small C program which is linked WAIS libraries. It is run with arguments including a WAIS index name and search terms and it produces on stdout an html document containing a list of URL's to the files which contain a match for the search terms. The intent is that this can be used with an http server to provide <INDEX> html documents which will search a collection of files indexed with WAIS. It only works with full text indexes of a collection of files, i.e. there is no support for things like mail or news format where a single message, as opposed to a whole file is considered a document. This would be easy to add, but requires cooperation from the server to return only part of a file.

WARNING: This is a quick effort with almost no testing done. There
is no support -- you're on your own.

Here is what you need to do.

1. Get the WAIS software. You can use either freeWAIS from
   or
   and build WAIS per the instructions.

2. In the wais2html src directory make symbolic links to the directories
   "bin" and "ir" in the main WAIS source directory.

3. Run make in the wais2html directory, producing the wais2html binary.

4. Index your files. This is done with the program "waisindex" which
   in the bin subdirectory of the main WAIS source directory. I suggest
   doing this by making a directory, say "waisindex" in which the index
   files will reside. Then cd to that directory and use the command
   
   waisindex -t filename /complete/path/to/files...

   or

   waisindex -t first_line /complete/path/to/files...

   where "files..." is replaced by a list of all the files you want to
   index. The difference in these two commands is that the html document
   which wais2html will produce will refer to the matching documents
   either by the name of the file containing a match or by the the first
   line of the contents of the file containing a match. Note that in
   the first form the argument is literally the string "filename"; that
   string is not replaced with the name of a file.

   [This step will be different if your server will run chrooted, because
   the complete path of the files are embedded in the index. I haven't
   tried it, but it should work to do the indexing chrooted,
   i.e. /etc/chroot newroot waisindex]

5. Test your setup with this index by running the command
   
   wais2html index root_dir title host port words...

   where root_dir is the root relative to which your server calculates
   URLs, host is your host name, index is "/path/to/waisindex/index",
   title is a quoted string for the title of the html document and
   words... is a list of search terms. Note that the "index" argument
   is slightly strange. It is the path to the waisindex directory you
   created with "/index" tacked on. There is no file by this name but
   a bunch of files of the form index.*.

6. If all works well set up your server to handle an INDEX query by
   running the program wais2html with arguments as in step 5 and so it
   returns the document this program produces on stdout.
NCSA Mosaic for the Macintosh - 1.0 Release

NCSA Mosaic is COPYRIGHTED by the University of Illinois. See copyright notice in the ftp directory and on-line.

This is the 1.0 release of NCSA Mosaic for the Macintosh. Special THANKS to all of you who helped us make this tool what it is. This is not the end! Development on NCSA Mosaic for the Macintosh will continue. We are beginning work on the 2.0 features tomorrow AM.

For those of you behind Firewalls: We are starting a Firewall mailing list in hopes of trying to solve the problems associated here. To join this list, mail the developers and put FIREWALL in your subject line.

To run this tool you will need the following; System 7.0 (or higher), MacTCP (2.0.2 is preferred - 1.x has bugs that will result in memory problems) and a network connection (Apple Remote Access can be used through a modem for the network connection).

NCSA Mosaic should function on all types of Macintoshes, including the SE and the Classic.

NCSA Mosaic is available by anonymous ftp from ftp.ncsa.uiuc.edu (141.142.20.50) in directory /Mac/Mosaic as NCSAMosaicMac.10.sit.hqx

The NCSAMosaicMac.10.sit.hqx has been stuffed using Stuffit 1.5 and BinHexed. You can un-binhex and un-stuff the file using any utility which handles these compression schemes. If you don’t have one try StuffitExpander (it nicely handles both schemes) located in the Mac/Mosaic directory. In order to un-binhex the expander follow the directions in Binhex.README located in Mac/Utilities.

Also look for the QuickStart Installation Guide. It is the file QuickStart.Txt in the Mac/Mosaic directory.
Bugs and Improvements for 1.0: (For a comprehensive list of features check the Macintosh home page.)

New Features........
  tn3270 support
  Loading of binhex files in gopher
  Support for HR and ALT HTML tags
  Access authorization: test case
  http://www1.cern.ch/AAtest/Welcome.html
  Full HTTP1.0 support, including redirection: test case
    http://www.bsd1.com/test-cases/HTTP/
  Gopher tries to guess image types by file extension now.

Bugs.............
  QuickTimes is still a problem for some users. It appears to timeout
    before receiving the entire file.
  Better interrupt support.
  All known interrupt hang-ups have been fixed.
  Telnet icons for Gopher are in.
  CSO gopher searches work, and do not spin forever.
  Annotations can be edited/deleted again.
  Temporary files are back in System Folder.

Please Send comments, suggestions and bug reports to mosaic-mac@ncsa.uiuc.edu. You have been a great help in making Mosaic a good, stable application.

Enjoy
Mosaic for the Mac Development Team.
Aleks Totic, Tom Redman, Kim Stephenson & Mike McCool
University of Illinois
National Center for Supercomputing Applications
152 CAB
605 E. Springfield
Champaign, IL 61820
On 4 Nov 1993 I wrote asking why the following came up with a blank screen:

http://www.slac.stanford.edu/afs/ir.stanford.edu/users/c/consult/pub/afs/afsfaq

Today you said:
> nothing special - there just has to be a rule like any thing else the
> server can offer! It's in there now.

Oops. For http: I agree I need a rule. But I also tried:

file:/afs/ir.stanford.edu/users/c/consult/pub/afs/afsfaq

and came up empty. (Is that supposed to be one or two //? I thought
I remembered that you said one for file: but Mosaic seems to use two.)

I also understood "file:" didn't require a rule but limited access to those
files in the user's filesystem.

Does your mail mean you added a rule? If so, I haven't found anything for
afs in either /usr/local/www/httpd.conf or /usr/local/gopher/gopher-data.
Where/what is the rule?

Today I'm getting and not getting the AFS file in MidasWWW and Xmosaic
with various variants of URL. For example in MidasWWW:

local:/afs/ir.stanford.edu/users/c/consult/pub/afs/afsfaq

works, but:

file:/afs/ir.stanford.edu/users/c/consult/pub/aconsult/pub/afs/afsfaq

doesn't. (Gets File access failed Reason 550 ... No such file....)
Nor does:

file:/afs/ir.stanford.edu/users/c/consult/pub/aconsult/pub/afs/afsfaq

(Get host unknown.)

And in Xmosaic File, Open Local:

/afs/ir.stanford.edu/users/c/consult/pub/afs/afsfaq

works just fine. As does:

file://cassandra/afs/ir.stanford.edu/users/c/consult/pub/afs/afsfaq

Could you explain? Joan
CERN-httpd 2.13 and libwww 2.13 released.

Everybody using CERN-httpd:

IT IS TIME TO UPGRADE!


httpd 2.13:
* Server Script support (/htbin-URLs); compatible with
  that of NCSA's (including redirection), but
  - no need for scripts to translate escaped
    special characters
  - full AA support for scripts as any documents
    - scripts can seem to have a "directory structure"
* all known AA bugs fixed:
  - broken fail rule
  - setuid() looks up nobody correctly; and
    doesn't refuse to run even if it fails
* other additions:
  - full filename suffix recognition (e.g. fixes
    "cannot convert application/octet-stream to
    www/present" with inlined .xbm images),
  - defaults are always used, and can be overridden
    from the rule file
  - understands Accept: */*
  - more tolerant of bad requests
  - checks that the third argument in HTTP1 request
    is really "HTTP/1.0" and not just garbage (bad
    HTTP0 request)

libwww 2.13:
* single HTPromtUsernameAndPassword() to enable
  a single authentication dialog box in GUIs
* fix: connection not opened before authentication
  information prompted

--
Ari Luotonen
World-Wide Web Project
CERN phone: +41 22 767 8583
CH - 1211 Geneve 23 email: luotonen@dxcern.cern.ch
MAILTMP FILE   AL   Dated 11/10/93 10:33:49   From disk BEB191   Page 1

Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with
      BSMTP id 4885; Wed, 10 Nov 93 09:04:51 PST
Received: from hebe.SLAC.Stanford.EDU by SLACVM.SLAC.STANFORD.EDU
      (IBM VM SMTP V2R1) with TCP; Wed, 10 Nov 93 09:04:50 PST
Received: by hebe.SLAC.Stanford.EDU (AIX 3.2/UCB 5.64/SLAC 920508)
      id AA15438; Wed, 10 Nov 1993 09:04:56 -0800
Date: Wed, 10 Nov 1993 09:04:56 -0800
From: bebo@unixhub.SLAC.Stanford.EDU
Message-Id: <9311101704.AA15438@hebe.SLAC.Stanford.EDU>
Subject: Lynx 2.0.12 now available!
To: bebo@slacvm.SLAC.Stanford.EDU

>> From: montulli@stat1.cc.ukans.edu (Lou Montulli)
>> Subject: Lynx 2.0.12 now available!
>> To: lynx-dev@ukanaix.cc.ukans.edu
>> Cc: www-talk@nxoc01.cern.ch, www-announce@nxoc01.cern.ch
>> X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU
>> X-Mailer: ELM [version 2.3 PL2]
>> Content-Transfer-Encoding: 7BIT
>>
>> Lynx Ver. 2.0.12 is now available for anonymous ftp from
>> FTP2.cc.ukans.edu as /pub/lynx/lynx2-0-12.tar.Z
>>

> Lynx is a distributed hypertext browser with full World Wide Web and Gopher capabilities. For an explanation of features and a demo, telnet to "kufacts.cc.ukans.edu" and login as "www".

This release of Lynx has been compiled by me on the following platforms:

  o IBM (AIX 3.2)
  o DEC Ultrix
  o DEC Alpha OSF/1
  o Sun 4
  o NeXT (Mine is an older version of NeXTStep, but it should work with newer ones too.)
  o VMS (Multinet)

This release is rumored to compile on the following platforms:

  o HP-UX (snake)
  o Solaris 2
  o SVR4
  o VMS (UCX)
  o LINUX
  o SGI
  o SUN 3
  o AIX 3.1
  o NeXTStep 3.x

Binaries for the following platforms are available:

  o IBM (AIX 3.2, will work with 3.1 as well)
  o Ultrix
  o Alpha OSF/1
  o Sun 4
  o VMS (Multinet)
A listserv list has been created for the distribution of
Lynx related information and updates.
- Lynx-Dev@ukanaix.cc.ukans.edu

Send a subscribe request to listserv@ukanaix.cc.ukans.edu to
be added to the list. All new releases will be announced on this
list. Please do not send subscribe requests to the Lynx-Dev
list directly.

The following new features have been added:

* added preliminary level 1 forms support.
  (Parsing and user display works, but nothing else)
* I'm looking for input on the forms interface!
* interruptable I/O added. Hit the 'a' key for "abort" during
  transfers. Its a little flakey right now during connections,
  but it works most of the time :)
* local HTML documents ending in .html can now be referenced with
  just a filename and/or path from the command line.
* Added preloaded searches to gopher URL's. They previously
  didn't work. This is readily apparent as preloaded CSO
  searches, which lot of people wanted. (bug?)
* added descriptive subject lines to files mailed from lynx
* added "X-within-URL" mail header line to specify which
  URL from which files, comments, and mailto links are sent from.
* The user's specified editor is now spawned for mail messages.
  If no editor is defined or if the user is anonymous, the built-in
  lynx mail sender is used.
* added progress messages to all transfers.
* added -cache=# command line option to specify the number
  of WWW documents cached in memory.
* added VMS port fixes from Poteos Macrides. Lynx now
  compiles and works on VMS! (bug?)
* Moved many configuration options including printer setup to
  lynx.cfg file. The default placement of the lynx.cfg file
  will be /usr/local/lib &/sys$Public. Printers can now be
  configured without recompiling!
* Removed STARTDIR variable from userdefs.h STARTDIR is now inferred
  from the STARTFILE. (doesn't effect HTML files)
* Ported to SVR4 courtesy of Nickolay Saukh (from Russia, Wow this is
  really getting around!)
* Uneditable documents don't get refetched. (Nickolay Saukh)
* National language support through LOCALE
  (instead of ISOLATIN1), protected by #ifdef LOCALE (Nickolay Saukh)

A partial list of bugs that have been fixed

* disabled FTP connection caching to help fix multiple FTP problems
* fixed a bunch of gopher holes
* gopher lists are turned into URL's now instead of lynx
* internal format document links
* removed old hytelnet compatibility code which looked in
  multiple directories to find the correct file. If you still
  need this capability talk to me.
* changed all static data structures to be dynamic
This was a pretty major change of code which may add several bugs. :) * rewrote parse_links routine to make it more efficient and to work with dynamic structures. * added VMS port fixes from Foteos Macrides. Lynx now compiles and works on VMS! * fixed ftp bug in WWWlib that didn't de-escape URL's before sending request to FTP server. * fixed coredump bug for some files with no links. * Fixed bug with only one link selectable out of many on the last line of the display.

: lou

---

*************************************************************************
* THE UNIVERSITY OF KANSAS *
* Lou MONTULLI @ Ukanaix.cc.ukans.edu *
* Kuhub.cc.ukans.edu ACS Computing Services *
* 913/864-0436 Ukanvax.bitnet Lawrence, KS 66044 *
* UNIX! Cool! I know that! Jurassic Park - The Movie *
*************************************************************************
*getsites* is a small C program that will produce detailed, concise, weekly, or daily reports from your Web server. Here's the details:

* Works with CERN, NCSA, Plexus, and GN log files.
* All reports are in the same consistent format.
* All reports include server name and type, GMT and local date, total requests last 7 days, unique hosts last 7 days, total unique hosts, number of HTML and non-HTML requests, total number of requests, and date coverage.
* Detailed report includes IP addresses and host name, number of host requests, and last access date.
* Weekly and daily reports are in vertical bar-chart format, with number of requests for each week or day.
* You can choose to ignore numerical addresses beginning with a certain string.
* getsites can take standard input, so you can pipe stuff to it.
* getsites can use a previous full getsites report to lookup addresses both ways (this really speeds things up).

Problems of getsites hanging or spewing out megabytes of endless junk (sorry about that) should be fixed, along with the major #include file related problems! System-V specific time functions have been removed and rewritten in ANSI C, so hopefully you'll be able to compile this thing just about anywhere. An great improvement in speed has been made, particularly for those analyzing logs with lots of host names. GN users can specify (in a #define) whether they want to log Gopher as well as HTML accesses. Triple thanks to those who contributed patches and suggestions, who know who you are.

You can find out more at:

http://pulua.hcc.hawaii.edu/files/getsites.html

Or just grab the source at:

http://pulua.hcc.hawaii.edu/files/getsites.16.c
Enjoy!

-- Kevin

--

Kevin Hughes
kevinh@pulua.hcc.hawaii.edu
Honolulu Community College WWW site maintainer
MAIL//TMP FILE  Al  Dated 11/10/93 10:34:39  From disk BEB191  Page 1

Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with
SMTP id 4901; Wed, 10 Nov 93 09:06:13 PST
Received: from hebe.SLAC.Stanford.EDU by SLACVM.SLAC.STANFORD.EDU
   (IBM VM SMTP V2R1) with TCP; Wed, 10 Nov 93 09:06:13 PST
Received: by hebe.SLAC.Stanford.EDU (AIX 3.2/UCB 5.64/SLAC 920508)
   id AA15530; Wed, 10 Nov 1993 09:06:19 -0800
Date: Wed, 10 Nov 1993 09:06:19 -0800
From: bebo@unixhub.SLAC.Stanford.EDU
Message-Id: <9311101706.AA15530@hebe.SLAC.Stanford.EDU>
Subject: Re: about me
To: bebo@slacvm.SLAC.Stanford.EDU

>> Date: Sun, 07 Nov 1993 19:48:43 -0500
>> From: "J. Schmidt Courtesy Acct" <jschmidt@sun1.wwb.noaa.gov>
>> Subject: Re: about me
>> Sender: ednet@nic.umass.edu
>> To: bebo@slac.stanford.edu
>> Errors-To: pgsmith@educ.umass.edu
>> Reply-To: ednet@nic.umass.edu
>> X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU
>> Content-Transfer-Encoding: 7BIT
>> Originator: ednet@nic.umass.edu
>> Precedence: bulk
>> X-Listprocessor-Version: 6.0b -- ListProcessor by Anastasios Kotsikonas
>> X-Comment: Local forum on educational possibilities of the Net
>>
>> Peggy,
>>
>> Regarding resources you are looking for..... if you know how to
>> do anonymous ftp, you can try our information at the NOAA Educational
>> Affairs Division. The machine address is beta.nodc.noaa.gov
>>
>> NOAA is a far-flung federal science agency with focus on the Oceans
>> and the Atmosphere. We operate the National Weather Service, the
>> National Ocean Service, the National Marine Fisheries, the Office of
>> Atmospheric Research, and the NOAA Fleet of ships.
>>
>> John Schmidt
>> NOAA Educational Affairs
>> jschmidt@beta.nodc.noaa.gov
>>
>>
If you want to update a database, try

"http://moulon.inra.fr/oracle/A/update/table?action=tables"

or retrieve "http://moulon.inra.fr/" and select "update the database".

To update the database, you must have:
- a client 1.0 which accept <FORM>
- an username : scott
- a password : tiger

With (scott,tiger) you can retrieve, update and add rows, you need another
(username, password) to delete rows or put a lock.

More explanations are given in:
"http://moulon.inra.fr/update_eng.html" (english version)
ou
"http://moulon.inra.fr/update.html" (version francaise)

Guy Decoux
Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 4917; Wed, 10 Nov 93 09:07:22 PST
Received: from hebe.SLAC.Stanford.EDU by SLACVM.SLAC.STANFORD.EDU (IBM VM SMTP V2R1) with TCP; Wed, 10 Nov 93 09:07:21 PST
Received: by hebe.SLAC.Stanford.EDU (AIX 3.2/UCB 5.64/SLAC 920508) id AA15536; Wed, 10 Nov 1993 09:07:27 -0800
Date: Wed, 10 Nov 1993 09:07:27 -0800
From: bebo@unixhub.SLAC.Stanford.EDU
Message-ID: <9311101707.AA15536@hebe.SLAC.Stanford.EDU>
Subject: Highlights of Workstation & Admin W/E 11/5/93
To: bebo@slacvm.SLAC.Stanford.EDU

> From: COTTRELL@slac.stanford.edu
> Subject: Highlights of Workstation & Admin W/E 11/5/93
> To: cxg@slac.stanford.edu, jxh@slac.stanford.edu, cal@slac.stanford.edu,
> dep@slac.stanford.edu, mls@slac.stanford.edu, bebo@slac.stanford.edu,
> tdowney@slac.stanford.edu, dart@slac.stanford.edu,
> kmartell@slac.stanford.edu
> Cc: crottell@slac.stanford.edu
> X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU,
> crottell@UNIXHUB.SLAC.STANFORD.EDU, JXH@UNIXHUB.SLAC.STANFORD.EDU,
> teresa@UNIXHUB.SLAC.STANFORD.EDU
> Content-Transfer-Encoding: 7BIT
>
>
> Workstation support
> 1) Cathie attended a Mail Products Symposium Thursday in San Jose
> and found at least one new product (cc:Mail, now owned by Lotus)
> that supplies mail and scheduling tools for all the platforms used
> at SLAC. She collected literature for other products that may, when
> checked out, be candidates as well.
> 2) Mary set up a class and demonstration for Mac and PC users on
> Excel 4.0 Macros for Friday, Nov. 19, 12 to 1 pm.
> 3) Dennis (in a week shortened to 2 days by illness) received
> several consulting inquires from outside users (SSRL, End Station
> A) on UNIX problems. One dealing with home connectivity led him
> to enter an annotated kermit session in /usr/local/doc/recipes/
> communications/kermit to serve as a prototype.
> 4) Joan has been working with Les to establish design features in
> WWW to differentiate world-access documents and SLAC-access-only
> documents. She also worked with Pat Clancy to scan images for
> inclusion in WWW and with Michael Riordan and Rene Donaldson to
> establish and point to a repository of SLAC related images.
> 5) Bob spend much of Thursday and Friday tracking a security
> incident involving mesun2 and coordinated with Mike Sullenberger
> and John Halperin about separate technical strands of the problem
> and with Bill to convey pertinent information to Rich Ledon as
> CPPM for the Lab.
> 6) Ilse (along with Chuck Dickens, Janet, Les, Rich Ledon and Brenda
> Eberle) have begun preparations for writing the yearly 5 year plan
> along new guidelines outlined in the Information Resources
> Management (IRM) Pilot Guidance document. She also helped move
> Section I from last year's 5 Year Plan into /usr/local/doc/futures
> and set appropriate pointers in WWW with Les and Joan.
7) Arla and Mary surveyed the building for Painter/Carpenter work that can be coordinated with office moves on the first floor and with work on the "Farm" room.

8) Mary with aid from John Halperin is exploring the Major Domo unix mailer from Campus in hopes of finding a mailer that doesn't send the detailed distribution list along with the mail for large distribution lists used by the Admin. staff.

9) Arla obtained an "official" list of SCS charging accounts along with their usage designations from Sunnie Sund and installed it in /usr/local/doc/scs/budget/accounts.

10) With massive amounts of help from Geoff, Bill and Arla have defined and established an Oracle database and forms applications for tracking purchase reqs with fields that include everything on the purchase req form as well as fields for actual cost, association with purchase order, and platform and service categories. With trepidation, we're awaiting the accounting records for October.

Les Cottrell
From: marca@ncsa.uiuc.edu (Marc Andreessen)
Subject: NCSA Mosaic for X 2.0 available
To: www-talk@hxc01.cern.ch
Cc: mosaicdev@ncsa.uiuc.edu, virginia@ncsa.uiuc.edu, kchang@ncsa.uiuc.edu
X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU
Content-Transfer-Encoding: 7BIT

Ladies and gentlemen, start your engines...

NCSA Mosaic for X 2.0 is now available.

...ftp.ncsa.uiuc.edu in /Mosaic:
  o Source in /Mosaic/Mosaic-source.
  o Binaries for SunOS 4.1.3, Solaris (yup) 2.3, AIX 3.2, IRIX 4.x,
    DEC Alpha (OSF/1), DEC Ultrix, and HP/UX 9.x (700-series) in
    /Mosaic/Mosaic-binaries.

Thanks MUCH to all the prerelease testers who sent us feedback and bug
reports -- your help made 2.0 into a vastly better product than it
would otherwise have been and will no doubt continue to improve Mosaic
throughout 2.0's lifespan.

If you have any comments, questions, or problems with Mosaic 2.0,
please send mail to mosaic-x@ncsa.uiuc.edu. Also please drop us a
note if you enjoy using Mosaic or if you are using it in any
interesting projects or applications -- we love to hear from our
users!

The remainder of this message is a text copy of 2.0's "Help on
Version" and summarizes important changes and new features in 2.0.

The online version of this document is:

Introduction to NCSA Mosaic for X 2.0

This document is intended to serve as an introduction to NCSA Mosaic for
the X Window System version 2.0. It covers new features in version 2.0, and
changes from version 1.2, that will affect most users of Mosaic.
For more information on any of the details in this document, please feel free
to send mail to mosaic-x@ncsa.uiuc.edu (or, alternately, to the World
Wide Web mailing list www-talk@info.cern.ch or the Usenet newsgroup
comp.infosystems.www).

Status Of Documentation For 2.0
=================================

We are currently writing real Mosaic 2.0 documentation; it isn't yet
available, for which we apologize. In the meantime, this document should at
least help current users of Mosaic 1.2 upgrade to 2.0 without too much pain.

Potential Problems
====================

This section is an up-front listing of how Mosaic 2.0 is different than
Mosaic 1.2 in ways that may cause apparent trouble to existing 1.2 users.

- The Mosaic executable has been renamed Mosaic, and the new class
  name for Mosaic is, predictably, Mosaic. Existing Mosaic 1.2 X
  resources and application defaults files should be modified to match.

- The method by which you customize the viewers Mosaic uses for
  various datatypes (e.g. MPEG movies or PostScript documents) has
  completely changed.

    First, the multimedia X resources (e.g. gifViewerCommand) used
    by Mosaic 1.2 are totally ignored by Mosaic 2.0. (Trust me, this is
    really a good thing.)

    Second, you now have complete control over the types of data
    Mosaic can understand and what it does with each type, as well as the
    file extensions that correspond to each type (when communicating
    with a HTTP0 or FTP server).

    Third, Mosaic now uses the MIME typing mechanism for naming
    data types (e.g., the MIME type for a GIF image is image/gif).
    This provides a substantial amount of interoperability with the
    present and future of multimedia email on the Internet, but will
    require a little readjustment on the part of users who are used to
    simply calling GIF files "type GIF", etc.

For more information on these issues, see:

- Information on mapping MIME types to external viewers.
- Information on mapping file extensions to MIME types.

- Mosaic 2.0 speaks the HTTP/1.0 protocol, while Mosaic 1.2 spoke
  the pre-HTTP/1.0 protocol commonly referred to as "HTTP0" or
  "HTTP/0.9".

    This means that Mosaic 2.0 sends more complex queries to HTTP
    servers than Mosaic 1.2 did. If you are running a fairly recent HTTP0
    server (e.g. NCSA httpd 0.5), this should not be a problem -- the new
    protocol is backward compatible, and Mosaic will go to great lengths
    to make sure it interacts with the HTTP0 server correctly.
However, some old HTTP servers (anything pre-1993) will break
completely when sent a HTTP/1.0 query, and Mosaic 2.0 won't be
able to make things work. Such servers are actually in violation of
the final HTTP0 protocol specification and should at least be
upgraded to conform to that specification, if not HTTP/1.0.

HTTP/1.0 servers are by now (November 1993) fairly widespread,
and many sites are using them without even realizing that they are
HTTP/1.0 servers, because they also talk HTTP0 to clients (like
Mosaic 1.2) that only talk HTTP0.

It is important to realize that HTTP/1.0 mandates server-side typing
of files. This means that the server must recognize, for example, that
the file extension ".gif" means that the file is a GIF image (i.e.,
MIME type image/gif), and must communicate this information
to the client within the HTTP/1.0 retrieval process. HTTP/1.0 clients
like Mosaic 2.0 will not look at file extensions to determine file types
when talking to HTTP/1.0 servers -- if the server gets the type
wrong, the client will not look at the suffix to try to figure out the
right type.

This means that if all of a sudden a file that Mosaic 1.2 always
handled as an HTML document is handled by Mosaic 2.0 as if it is a
binary data file, and the file is being served off an HTTP/1.0 server,
the server is (almost surely) at fault for not informing the client of
the correct type.

Related issue: Transparent uncompression is currently never done
when talking to a HTTP/1.0 server. This will be fixed in a
maintenance release. We do however discourage reliance on
transparent uncompression in general, as clients on other platforms
(e.g. NCSA Mosaic for the Mac & Windows) generally can't
uncompress files compressed using the standard Unix methods (compress and gzip).

(Note to the skeptical: server-side typing is actually a powerful
feature of HTTP/1.0, despite any migration problems it may cause.
Also note that Mosaic 2.0 will still do file extension typing when
talking to HTTP0 servers, so you can always continue to run a
HTTP0 server in conjunction with Mosaic 2.0 if you prefer
client-side typing.)

Mosaic 2.0 does not have the hardcoded Documents and Manuals
menus that were in Mosaic 1.2. They were removed for a number of
reasons too boring to go into here. If, however, you find yourself
"lost in cyberspace" because of the loss of those hardcoded menus,
choose the "Internet Starting Points" entry in Mosaic 2.0's
Navigate menu -- Mosaic will fetch a document from NCSA that
contains the contents of Mosaic 1.2's hardcoded menus in HTML
form.

Also see the new "Internet Resources Meta-Index", also under
Mosaic 2.0's Navigate menu, for an alternate set of Internet
starting points perhaps more suitable to the task of locating any
specific piece of information on the network.

New Features In Mosaic 2.0
OK, this is the fun part. What will Mosaic 2.0 do for you?

- Completely interruptible I/O. At any point in a data transfer process (hostname lookups and certain stages of direct WAIS queries excepted), you can click on the icon in the upper right corner of the window to stop the current network action.

- Fill-out forms. As per the current HTML+ spec, documents can specify interactive fill-out forms -- with input elements including text entry areas, toggle buttons, selection lists, popup menus, etc. -- and Mosaic will instantiate such fill-out forms as sets of Motif widgets embedded inside the documents.

  This provides a way to provide arbitrarily sophisticated front-end interfaces to databases and search engines, as well as other network services -- e.g., ordering pizzas.

  See details on fill-out forms.

- Authentication. Thanks to Ari Luotonen at CERN, Mosaic can now communicate properly with HTTP/1.0 servers that demand user authentication before accessing information -- the user is presented with an opportunity to enter a username and password to authenticate herself to the remote server.

  Currently, the "BASIC" authentication scheme is supported, which provides for encoded (not cleartext, but not encrypted) transmission of password data across the network. This provides a level of security at least as secure as, e.g., telnet.

  Once a user is authenticated on a particular server, Mosaic is smart about caching and reusing the authentication information in subsequent transactions with the same server in the same session -- the user will be informed at any time the cached authentication fails and will be provided with the opportunity to enter a new username and password again.

  See the CERN authentication overview for more information.

- Direct WAIS access. Mosaic can now talk directly to WAIS servers without needing to go through an intermediate gateway. This also means:

  - Mosaic can cleanly retrieve and properly handle binary data (images, audio, video, etc.) as well as HTML documents from WAIS servers. Mosaic 2.0's normal customization mechanisms can be used to customize what happens when various types of binary data are accessed from WAIS servers.
  - Mosaic natively supports freeWAIS's ability to tie together multiple data files with different formats under a single umbrella (e.g., as a result of a query across text, the user may be presented with her choice of text, image, or audio).

  Examples of direct WAIS access:
Direct access to CNIDR WAIS directory of servers.
Direct access to InterNIC RFC WAIS server.
A search on the term "MIME" in the InterNIC RFC WAIS server.
RFC 1437 from the InterNIC RFC WAIS server.
Full format/viewer/extension customizability, including the ability to allow local shell scripts to be launched from hyperlinks.

For more information, see:

Information on mapping MIME types to external viewers.
Information on mapping file extensions to MIME types.
Information on allowing shell scripts to be executed via hyperlinks.

Native viewing of HDF and netCDF scientific data files. Here are some examples:

An HDF file of a galactic jet.
A complex HDF file containing lots of different data elements, including hyperlinks within annotations.
A netCDF file.
An image of NCSA Director Larry Smarr.
A huge (5+ megabytes) HDF file of satellite weather image and associated metadata.

Note: since it is possible for Mosaic 2.0 to be compiled without native HDF/netCDF viewing support, your particular copy may not be able to view the above examples.

URL redirection. This means that a server can return, instead of a document, a pointer to a document anywhere on the Internet. When this happens, Mosaic will transparently attempt to fetch the new document.

Among other things, this enables clean graphical distributed information space mapping -- a single image map can have hotspots corresponding to information resources scattered throughout various information servers across the Internet, and the user can jump to any of those resources with a single mouse click.

For an example of URL redirection in conjunction with image mapping, see the experimental Internet Resources Metamap.

Inlined image caching, including customizability of the amount of memory Mosaic will use to cache inlined images (default is 2048 kilobytes).

Use the command line flag -ics or the X resource imageCacheSize to set the size of the image cache in kilobytes.

Delayed image loading, for users with slow network connections. Use the -dil command line option or set the delayImageLoads X resource to True to enable delayed image loading by default; it can be controlled on a per-window basis from Mosaic’s Options menu.
HTTP/1.0 support. In addition to enabling things like fill-out forms
support, redirection, and authentication, this means that Mosaic can
talk with the new breed of sophisticated HTTP/1.0 servers being
deployed on the network to the fullest extent of their -- and
Mosaic's -- ability.

See also the CERN HTTP/1.0 spec.

Better hypermedia document display capabilities:

Documents can be arbitrarily long now.
Normal document text is formatted to the width of the visible
window, not the width of the widest element (e.g. sections of
preformatted text) in the document.
Support for <BR> (line break) and <HR> (horizontal rule)
tags.
Sophisticated support for inlining Motif widgets into
documents, which enables the fill-out forms support
described above.
Performance speedups.

URL canonicalization -- a fancy way of saying that Mosaic strips
redundant or useless information (like capital letters in hostnames,":80" in HTTP queries and ":70" in Gopher queries, and trailing dots
in hostnames) out of all URLs it accesses. This makes the global
history tracking much more consistent by improving the odds that
two slightly different URLs that point to the same document are
recognized as identical by Mosaic.

Improved system resource management -- many memory and socket
leaks were fixed. Due to these fixes and the inlined image caching
mentioned above, Mosaic should not be terribly hard on your system
even if you use it for a long time now.

Better PostScript output, including output of color inlined images.

Cute little icons in Gopher and FTP interfaces.

Enhanced remote control features, including ability to scroll through
documents from shell scripts and cleanly fire off external viewers
(e.g. images and audio).

Mouse tracking -- see the URL for the hyperlink under the pointer.

Menu item File->Refresh Current provides a convenient
way to restore proper inlined image colors in a given window if the
colors have been previously stolen for another window's inlined
images -- keyboard accelerator (with pointer inside the scrolled
document viewing window) is Capital-R.

Configurable Documents menu, for local site configuration.

Full compile-time customizability of home page, docs directory, and
all other hardcoded URLs for sites without direct Internet access.

Lots and lots of bug fixes and minor functionality and performance
improvements.

More Information

You may wish to look over an exhaustive list of technical changes that took place during the development of Mosaic version 2.0.

To take full advantage of Mosaic 2.0's capabilities, you should run a very smart HTTP/1.0 server. We recommend NCSA httpd. If you prefer a Perl-based server, try Plexus. Other options are CERN httpd and GN.

mosaic-x@ncsa.uiuc.edu

Cheers,
Marc & Eric

Marc Andreessen & Eric Bina
Software Development Group
National Center for Supercomputing Applications
marca@ncsa.uiuc.edu & ebina@ncsa.uiuc.edu
I got Mosaic-ibm running on Hebe. JoAnn thinks it is an AIX release problem. Hebe is running a more recent release than Jupiter or atlas, so it runs on Hebe.

Anyway I tried getting to the networking page from the SCS page and got: Error 501

Sorry, can't convert from application/binary to www/present.

This happened on several of the pointers on the SCS page. Am I doing something wrong in the html? Can you fix please.

--
Les Cottrell
MAILSTMP FILE   A1   Dated 11/12/93 14:50:33   From disk BEB191   Page 1

Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with
BSMTP id 3461; Fri, 12 Nov 93 14:38:35 PST
Received: from hebe.SLAC.Stanford.EDU by SLACVM.SLAC.STANFORD.EDU
   (IBM VM SMTP V2R1) with TCP; Fri, 12 Nov 93 14:38:34 PST
Received: by hebe.SLAC.Stanford.EDU (AIX 3.2/UCB 5.64/SLAC 920508)
   id AA41889; Fri, 12 Nov 1993 14:38:41 -0800
Date: Fri, 12 Nov 1993 14:38:41 -0800
From: bebo@unixhub.SLAC.Stanford.EDU
Message-Id: <9311122238.AA41889@hebe.SLAC.Stanford.EDU>
Subject: notes on 2.0 binaries
To: bebo@slacvm.SLAC.Stanford.EDU

   >> From: marca@ncsa.uiuc.edu (Marc Andreessen)
   >> Subject: notes on 2.0 binaries
   >> To: www-talk@nxoc01.cern.ch
   >> Cc: mosaicdev@ncsa.uiuc.edu
   >> X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU
   >> Content-Transfer-Encoding: 7BIT
   >>
   >> Please read the following, particularly re Solaris and IBM binaries.
   >> Feedback on whether Mosaic-ibm-static even works on non-AIX 3.2.4
   >> systems would be greatly appreciated.
   >>
   >> Cheers,
   >> Marc

   >>
   >> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   >>
   >> Summary of availability and features of NCSA-supplied Mosaic 2.0 binaries
   >>   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
   >>
   >> ftp://ftp.ncsa.uiuc.edu/Mosaic/Mosaic-binaries
   >>
   >> -rwxr-xr-x 1 11811  wsstaff 756381 Nov 10 05:44 Mosaic-alpha.Z
   >> -rwxr-xr-x 1 11811  wsstaff 1995413 Nov 10 05:44 Mosaic-dec.Z
   >> -rwxr-xr-x 1 11811  wsstaff 1719076 Nov 10 05:44 Mosaic-hp700.Z
   >> -rwxr-xr-x 1 11811  wsstaff 1659677 Nov 11 06:30 Mosaic-ibm-static.Z
   >> -rwxr-xr-x 1 11811  wsstaff 2924967 Nov 10 05:45 Mosaic-ibm.Z
   >> -rwxr-xr-x 1 11811  wsstaff 1442979 Nov 10 06:00 Mosaic-sgi.Z
   >> -rwxr-xr-x 1 11811  l 1502779 Nov 10 18:52 Mosaic-solaris.Z
   >> -rwxr-xr-x 1 11811  wsstaff 2606677 Nov 10 05:45 Mosaic-sun-1resolv.Z
   >> -rwxr-xr-x 1 11811  wsstaff 2589890 Nov 10 05:46 Mosaic-sun.Z

   >> Mosaic-alpha:
   >> DEC Alpha, OSF/1 version 1.3.
   >> No DTM, no HDF, no native WAIS.
   >> DEC MIPS, Ultrix 4.0.
   >> DTM, HDF, no native WAIS.
   >> HP 9000/730, HP-UX 9.01.
   >> No DTM, HDF, no native WAIS.
   >> IBM RS/6000, AIX 3.2.4, XL1R5.
   >> DTM, HDF, native WAIS.
   >> Mosaic-ibm:
   >> IBM RS/6000, AIX 3.2.4, linked static.
   >> DTM, HDF, native WAIS.
   >> NOTE: This binary is an experiment, please
give it a shot if the normal Mosaic-ibm
doesn't work on your system and let us
know how it goes. There seem to be
spurious error messages printed in the shell window when this binary is run; they don't seem to affect the program's functionality.
Also note that this binary is the only one not compiled with debugging enabled, as the debugging binary was over 11 megabytes.

Mosaic-sgi:
SGI IRIX 4.0.x.
DTM, HDF, native WAIS.

Mosaic-solaris:
Sun Solaris 2.3.
No DTM, no HDF, no native WAIS.

NOTE: You may need to set the environment variable XKEYSYMDB to point to the XKeysymDB file on your system when running this binary.

Mosaic-sun-1resolv:
Sun SunOS 4.1.3, linked to system libresolv.a.

Mosaic-sun:
DTM, HDF, native WAIS.

Mosaic-sun:
Sun SunOS 4.1.3.

DTM, HDF, native WAIS.

NOTE: If Mosaic-sun does not work on your particular system, you should try Mosaic-sun-1resolv instead (unless you are running Solaris; then you should run Mosaic-solaris).

All Mosaic binaries -- except Mosaic-ibm-static -- are compiled with debugging (-g) enabled, so users can send us a core traceback if a coredump should happen to occur. If you wish, you may strip the binaries; however, you will then be unable to help us if something goes wrong, and we may not be able to fix any bugs you encounter.

Note that it is relatively straightforward to compile Mosaic yourself on, in particular, SGI, IBM, and DEC Alpha systems as shipped by the respective vendors.

Note further that we may stop distributing any of these binaries at any time.

mosaic-x@ncsa.uiuc.edu
Updating an Oracle database

version française

Features

- method GET, PUT, POST, DELETE, SHOWMETHOD, CHECKIN and CHECKOUT
- access control based on method name
- form
- minimal configuration: you just have to add an URL in a document
- you can add a general comment for the database, comments on tables and comments on columns.
- you can add links to go from a row in a table to rows in other tables.

Configuration

- Minimal configuration: You just have to put in a document,

  http://server/oracle/database_name/.../table?action=table

  All other documents are automatically created by
  the server when the user consult the database.

- You can add a general comments for the database,
  comments on tables and comments on columns.
  o to add a comment for the database, you
    must create the document:

    http://server/oracle/database_name/welcome.html

  o Example for columns and tables:

    moulon% sqlplus
    moulon% SQL> COMMENT ON TABLE projects IS
    moulon%  2 'you have a nice image of the moon'
    moulon% SQL> COMMENT ON COLUMN projects:project IS
    moulon%  2 'Please, send it me.'
    moulon% SQL> EXIT

Link

To add link to go from a row in a table to rows in other tables, you must create a file with name ".link".
Each line in this file must have three fields, separated by ",:".

- name of linked tables (separated by ",")
- condition to add at the WHERE clause
- text to display (separated by ",")

If no text is associated to a table name, the link is not created.

Line beginning with a # is a comment.
Line beginning with one or more spaces is a continuation line.

Example:

```
moulon$ cat /Public/www/oracle/A/update/.link
cartes,PROJETS:projets.cartes:cartes:cartes:carte:Map,Project
projets,BIBLIO:projets_biblio:
projets,projets:projets_biblio.num_prj and biblio.ref-projets_biblio.num_ref:
Project,Bibliography
projets,dispositif,dispositif_projet:
  dispositif_projet.num_exp=dispositif.experience and
  dispositif_projet.num_prj=projets.projet:
Project,Plan
```

When server retrieve a row from the table "PROJETS", it add links:

- `<a href="CARTES?...">Map</a>`
- `<a href="BIBLIO?...">Bibliography</a>`
- `<a href="DISPOSITIF?...">Plan</a>`

When server receive these URL, it add at the WHERE clause, respectively:

- for CARTES:

  ```sql
  and (projets.cartes:cartes:cartes:carte)
  ```

- for "BIBLIO"

  ```sql
  and (projets.projet:projets_biblio.num_prj and
       biblio.ref-projets_biblio.num_ref)
  ```

- for "DISPOSITIF"

  ```sql
  and (dispositif_projet.num_exp=dispositif.experience and
       dispositif_projet.num_prj=projets.projet)
  ```

**Warning:** column name in the condition must be fully qualified.
URL and Methods

Syntax is:

http://server/oracle/database_name/file?action=xxxxxx&...

where `action` is:

- **method SHOWMETHOD**
  - `action=tables` to retrieve all accessible tables.
  - `action=columns` to retrieve name of all accessible columns for a given table.

- **method GET**
  - `action=retrieve` to retrieve all (or a subset) rows from a table

- **method PUT**
  - `action=update` to update a row.

- **method CHECKOUT**
  - `action=lock` to retrieve rows and put a lock.

- **method CHECKIN**
  - `action=release_lock` a lock must be explicitly release.

- **method POST**
  - `action=create` to add a new row.
  - `action=new` to retrieve a empty form, fill it and add a row.

- **method DELETE**
  - `action=delete` to delete rows.

*Nota Bene:* actually when server receive "action=delete", it execute only a "GET" and wait for confirmation. The real delete is "action=Confirm_delete".

**Example**

With:

http://server/oracle/database_name/.../table?action=delete&...

1.) server receive:
GET /oracle/database_name/.../table?action=delete...

2.) server translate into:

DELETE /oracle/database_name/.../table/...

3.) server check access and locks.
4.) if all is well, server execute the request.

Access control

WWW

Access control is based on authentication protocol of WWW. Username for authentication is used to connect to the database.

Example

With

http://moulon.inra.fr/oracle/A/update/table?action=table

Files are:

- /etc/httpd.conf

  defprot */moulon/WWW/Protection/httpd.prot
  protec /oracle/A/update/* /moulon/WWW/Protection/httpd.prot
  fail */.prot
  map /* file:/moulon/Public/www/*
  pass http://moulon.inra.fr:80/*
  pass file:/moulon/Public/www/*
  fail */
  fail /*

- /moulon/WWW/Protection/httpd.prot

  authenticate Basic
  server.id moulon.inra.fr
  passwordfile /moulon/WWW/Protection/httpd.passwd
  groupfile /moulon/WWW/Protection/group.passwd

  • username "scott" are registered:

    moulon% htdadm -adduser /moulon/WWW/Protection/httpd.passwd scott tiger "Oracle user"

- file:///moulon.inra.fr/oracle/A/update/.www_acl

  * : get, post, showmethod : www
  * : put, post, showmethod : scott
  * : get, put, post, delete, showmethod, checkin, checkout : ducoux

Nota Bene

For a database, I suppose:
1. "PUT" imply "GET" : I don’t see how an user can update a row, if he can’t retrieve its content.

2. "POST" not imply "GET"

Example :

- "GET" : user can retrieve rows
- "PUT" : user can retrieve and update rows.
- "CHECKIN" and "CHECKOUT" : user can put and release a lock.
- "POST" : user can add rows.

To put a lock, "httpd" must have write access on the directory.

Problem with "release_lock"

When a user put a lock, I send it in a document. To release a lock, the user must give the good lock. If he lost his lock, he can’t release it.

I use this special convention :

- If a user has "CHECKIN" and "CHECKOUT" : he can put a lock and release only his own lock.
- If a user has all privileges "GET ... CHECKOUT" : he can release any lock.

Oracle

User must be registered with the necessary privileges.

Example

For "scott" :

```
moulon@sqlplus
SQL> Grant connect to scott identified by tiger;
SQL> Grant select, update, insert, references on fronts to scott;
SQL> Grant select, update, insert, references on citi to scott;
SQL> Grant select, update, insert, references on bibli to scott;
```

Source

You can retrieve source in :

http://moulon.inra.fr/pub/www/oracle/example.tar.Z
WARNING: this is JUST an EXAMPLE

Please note:

I program like I speak English (very BAD, excuse me)

Is
NCSA Mosaic for Microsoft Windows

last update to this file:
  November 12, 1993
last release of WinMosaic:
  November 11, 1993 (version 1.0)

NCSA Mosaic is copyrighted by the University of Illinois. The Copyright notice is here.

Welcome to NCSA Mosaic for Microsoft Windows. This page contains the list of features, known bugs, things to do, and a brief users guide.

The Frequently Asked Questions document is here.

Some screenshots of Windows Mosaic are here.

To run WinMosaic, you will need a system running Microsoft Windows 3.1 with a WINSOCK-compliant sockets library installed. If you do not have a Windows sockets library, we recommend using Peter Tattam's Trumpet WinSock (more info on this can be found here). It can be found on NCSA's FTP site (see below) in the "sockets" subdirectory of the WinMosaic release directory, or it can be found here.

Mosaic requires running Windows in Enhanced Mode, so you will need an absolute minimum of an 80386SX-based machine. Our recommended configuration is a 33-MHz or faster 486 with Local Bus SuperVGA video, with at least 8 meg of RAM, although Mosaic should run on a 4-meg machine.

If you are unfamiliar with the steps necessary to install or configure NCSA Mosaic for Microsoft Windows, please see Installation and Configuration Instructions.

NCSA Mosaic for Microsoft Windows has been officially released. It is available from our FTP site, "ftp.ncsa.uiuc.edu" (141.142.20.50), in the "/PC/Mosaic" directory. If you are running Mosaic already, click here and use "Load to Disk" to transfer the .zip file to your computer. WinMosaic is zipped using PKZip 1.10. Some of the viewers are zipped using PKZip 2.04, so if you are having problems unzipping them, check the version of your ZIP utility.

If you have any questions, or would like to be put on the beta notification list, send email to mosaic-win@ncsa.uiuc.edu.

Current features in NCSA Mosaic for Windows
NCISA Mosaic for Microsoft Windows has been officially released. It is available from our FTP site, "ftp.ncsa.uiuc.edu" (141.142.20.50), in the "IPC/Mosaic" directory. If you are running Mosaic already, click here and use "Load to Disk" to transfer the zip file to your computer. WinMosaic is zipped using PKZip 2.04, so if you are having problems unzipping them, check the version of your ZIP utility.

If you have any questions, or would like to be put on the beta notification list, send email to mosaic-win@ncsa.uiuc.edu.

Current features in NCISA Mosaic for Windows

New features in the final version 1.0:

- The scrolling bug is fixed. You shouldn't see the screen mess up due to images or large text in the document anymore.
- Network I/O is now (somewhat) Interruptable. Click on the big Mosaic icon in the upper-right corner to kill a net transfer.
- Also, quitting Mosaic forces a kill of any net transfers in progress. This means the "Can't run two instances of the same program" error message shouldn't appear anymore (although this feature is still a bit buggy).
- Images can now be aligned middle, top, or bottom, instead of just top. Considering that the default is bottom, and we only did top before, I was pretty surprised that no-one mentioned this anomaly throughout all our beta testing.
- News articles are now readable (i.e., not all on one line)
- URL redirection (a feature of HTTP 1.0) is now supported.
- Home Page loading is fixed.
- If you were having problems with the first document you tried never loading, but subsequent ones working fine, that's fixed.
- Title and URL boxes are redrawn at the correct time now.
- Back & Forward Assertion Failed errors are gone.
- Telnet executable (used for telnet://URLs) is now configurable - see "telnet=" under the Viewers section of the INI file.
- FTP error messages are now returned to the user.
- FTP logs now use your email address when logging in (this fixes a connect problem the CERN LibWWW was creating).
- You can log in to a NON-anonymous FTP via the following method: set the URL to be FILE://username@machine/p pathname. For example, to log in as user "jdoe" to FTP site "ftp.yoyodyne.com", in the "/usr/jdoe" directory, give the URL: "file://jdoe@ftp.yoyodyne.com/usr/jdoe" Mosaic will pop up a dialog box, asking to confirm the username and give your password. Your password is maintained within Mosaic until you quit. Do NOT use this feature if you are security-paranoid.
dialog box, asking to confirm the username and give your password. Your password is maintained within
Mosaic until you quit. Do NOT use this feature if you are security-paranoid.
• Gopher and FTP now use pretty icons for files/directories/etc, and FTP shows the file sizes.
• New set of Configured Menus, with all kinds of pointers.
• Horizontal rules are prettier now.

New features in version 0.7b:

Released October 17, 1993
- A MAJOR memory drain is plugged... you can now use Mosaic for a LOOOOOONG time without
  running out of memory (hopefully!).
- DOCUMENT caching is now supported! You can cache by number of documents (stable) or amount of
  memory (NOT stable).
- The Search feature works again!
- Windows Mosaic is now HTTP/1.0 compliant.
- If HTTP accesses didn’t work for you, but Gopher and FTP did, it should now. (This was the case
  running under Windows NT.)
- Mail To Developers window now resizes correctly.
- The SMTP/Mail host is now configurable.
- The history is fixed - no more Assertion Failed messages from Back & Forward buttons.
- WinMosaic no longer attempts to MIME-type files transferred in binary mode.
- URLs which contain IP numbers no longer cause GPFs.
- Documents without titles no longer have the last document’s title in the title bar.
- The background color can be set to white instead of grey.
- The underlining/anchor bug seen on the Mosaic demo page is fixed.
- The problem with menu items on Menu 8 being mapped to Menu 2 is fixed.
- Temporary file names are chosen more intelligently (attempts to use the source file’s name.)

New features in version 0.6b:

First beta release – September 28, 1993
- Try out the brand-new “Mail to Developers” option under the Help menu! This lets you send email to
  the developers straight from your PC. Be sure to set up your email address in WMOASIC.INI.
- The ISMAP image attribute is supported!! For a demo of this, take a look at the Expo or Rob’s server
demo.
- History Window is now fixed - “Back” and “Forward” work correctly.
- “Display Inlined Images” option is now complete - shut this off to not transfer inlined images (lots
  faster for people running over a slow net connection). Press the left mouse button to traverse a
  hyperlink, press the right mouse button to load an unloaded inline image.
- The new horizontal rule tag (<HR>) has been implemented.
New features in version 0.6b:

First beta release - September 28, 1993
- Try out the brand-new "Mail to Developers" option under the Help menu! This lets you send email to the developers straight from your PC. Be sure to set up your email address in WMOSAIC.INI.
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- History Window is now fixed - "Back" and "Forward" work correctly.
- "Display Inlined Images" option is now complete - shut this off to not transfer inlined images (lots faster for people running over a slow net connection). Press the left mouse button to traverse a hyperlink, press the right mouse button to load an unloaded inline image.
- The new horizontal rule tag (<HR>) has been implemented.
- Local directory browsing works now. Try this.
- The messed-up MPEG and JPEG extensions are fixed, and configureable.
- Options for changing anchor color and underlining anchors.
- Completely configureable MIME-style extension typing and presentation (See installation documentation for details.)
- Drive specifiers have been added to local file URL's.
- "DELETE: command not found" error after loading GIF, etc., is gone.
- Personal Annotations are much more robust now.
- Scrolling via keys is now supported.
- ISO characters should work now, if specified by the correct HTML, like so: "Sein -- das ist der Psa für die Ewigkeit." (aus Die Grössere Hoffnung von Ilse Alchinger.)

New features in version 0.5a:

(Released Sept. 16, 1993)
- Image caching within document - no more multiple loads of images when they are used multiple times in a document.
- MUCH faster scrolling, due to smarter drawing function. This introduced an as-yet-unfixed redrawing bug while scrolling in a document that has inlined images.
- This seems to alleviated the problem with documents being visually mangled when loaded while not scrolled to the top.
- Bug with removing spaces in Gopher, News, and FTP is fixed.
- Internal anchors - i.e., hyperlinks to anchors within a document like this, -- work now, complete with scrolling to the correct location.
- File Typing (i.e. HTML vs plaintext) is done more intelligently.
- Home Page button and Menu option work now, loading whatever document is set up as "URL0" in WMOSAIC.INI.
- Open Local capability - use standard file dialog to open files on local disk.

Search Keyword:
Features in version 0.4a:

- Null chunk bug has been fixed! You should no longer see Mosaic dropping parts of a document.
- Problems with anchors on left edge of the window have been fixed.
- GPF when choosing "Add Current to Hotlist" with no document loaded has been fixed.
- Anchors in preformatted text now work correctly.
- The new line break tag (<BR>) has been implemented.
- Description lists display correctly.
- Lists can now be nested to arbitrary depth.
- The bold (<B>) and italics (<I>) tags now work.
- We now try to load an image several times before we give up on it. This is actually a little annoying on documents that have missing images (such as some of the Vatican Exhibit docs), but I'm working on fixing that.
- Mosaic for Windows calls WSACleanup to clean up the sockets library. This may temporarily cause a problem for people using our library - Windows will give the message "Application Error - Call to Undefined Dynalink" when you try to exit. Don't worry about it. We'll get around to fixing it.
- Lastly, the fix to the bug that was wiping out chunks of a document seems to have improved the GPF bug. However, it still crashes every once in a while, and it still seems to be a much more frequent occurrence in the non-debugging version of the program. *sigh*.

New features in version 0.3a:

- Fixed bug which would cause a GPF upon exiting
- Fixed a number of memory holes which would lead to GPF's and quickly running out of available resources. (although some probably still remain).
- Binary Transfer Mode.
- Support for Inlined X-Bitmaps
- Configuration option to automatically load a home page.
- User configurable menus
- Internal support for AIFF audio files
Bugs and bug-like features

Bug reports are most welcome when accompanied by your configuration, the URL of the loaded page, description of the problem, and instructions for repeating the problem. Please check the following list to make sure that we are not already aware of the problem before reporting any bugs.

The following bugs are known and are currently being worked on:
- Occasional (frequent?) GPFs especially in the release version. For some unknown reason, the version containing debugging info is more stable.
- Back and Forward (history options) do not work correctly.
- If you are using our WinSock (I'm sorry). You'll get an "Undefined Dynalink" error on exit.

The following functionality is currently missing and being added:
- Bottom alignment of inlined images
- Printing/Print Preview
- Copy and Paste
- Caching of documents
- Ability to submit/edit/delete group annotations doesn't exist

Tips and hidden functionality:
- Shift-click will result in a binary-mode transfer.
- Right-click will load an inlined image when "Display Inlined Images" is off.

Enjoy.

NCSA Mosaic for Microsoft Windows Developers

Chris Wilson & Jon Mittelhauser

Please mail mosaic-win@ncsa.uiuc.edu with any questions or comments.
Newsgroups: comp.infosystems.www

From: mosaic-w@void.ncsa.uiuc.edu (Windows Mosaic Tech Support)
Subject: NCSA Mosaic for MS Windows 1.0 release notice....
Date: 11 Nov 1993 22:56:37 GMT

We are happy to announce the official final release of NCSA Mosaic for
Microsoft Windows version 1.0.

NCSA Mosaic is a distributed hypermedia system designed for information
retrieval and discovery over the global Internet. Mosaic provides a unified
hypermedia interface to the various protocols, data formats, and information
archives used on the Internet and provides powerful new methods for discovering
and using information. Mosaic is capable of accessing data via protocols such
as Gopher, World Wide Web, FTP and NNTP (Usenet News) natively, and other data
services such as Archie, WAIS, and Veronica through gateways.

NCSA Mosaic for Microsoft Windows is a WinSock client program. It requires
network (TCP/IP) access through the WinSock DLL interface. If you are using
Windows NT, this is built in. If you are using Windows 3.1, you need to
obtain a WinSock and install it on your system. There is an alpha version of
a shareware WinSock on our FTP server. If you are running a commercial TCP/IP
stack, such as FTP Software's, you need to obtain their WinSock DLL directly
from your LAN vendor.

BUG REPORTS AND ENHANCEMENT REQUESTS should be emailed to
"mosaic-win@ncsa.uiuc.edu". PLEASE INCLUDE THE VERSION NUMBER YOU ARE USING
IN ANY MAIL YOU SEND US. Thank you for your interest and support.

The beta release is via anonymous FTP on NCSA's FTP server, "ftp.ncsa.uiuc.edu"
(141.142.20.50), in the directory "/PC/Mosaic".

This directory contains the following files:

readme.now - General info on Mosaic.
wmosl_0.zip - executable & support files for NCSA Windows Mosaic.
sockets - This directory contains a copy (not necessarily the most
          recent) of Peter Tattam's Trumpet Winsock, a shareware
          WinSock sockets library.
old - This directory contains old beta versions of Windows Mosaic.
viewers - This directory contains external viewers we have found to
          be useful with Windows Mosaic.

If you do not have your own WinSock1.1, and you want a WinSock that will be
useful for programs other than only NCSA Mosaic, then we would suggest trying
the alpha release of the Trumpet WinSock, available in the "sockets"
subdirectory (although this copy may not be the latest released.)

-Chris Wilson
-Jon Mittelhauser

New features since the 0.7b beta release:
------------------------------
The scrolling bug is fixed. You shouldn't see the screen mess up due
to images or large text in the document anymore.
Network I/O is now <B>interruptable</B>. Click on the big Mosaic icon in the upper-right corner to kill a net transfer. Also, quitting Mosaic forces a kill of any net transfers in progress. This means the "Can't run two instances of the same program" error message shouldn't appear anymore.

Images can now be aligned middle, top, or bottom, instead of just top. Considering that the default is bottom, and we only did top before, I was pretty surprised that no-one mentioned this anomaly throughout all our beta testing.

News articles are now readable (i.e., not all on one line.) URL redirection (a feature of HTTP 1.0) is now supported.

Home Page loading is fixed.

If you were having problems with the first document you tried never loading, but subsequent ones working fine, that's fixed.

Title and URL boxes are redrawn at the correct time now.

Back & Forward Assertion Failed errors are gone.

Telnet executable (used for telnet:// URLs) is now configureable — see "telnet=", under the Viewers section of the INT file.

FTP error messages are now returned to the user.

FTP logins now use your email address when logging in (this fixes a connect problem the CERN LibWWW was creating.

You can log in to a NON-anonymous FTP via the following method: set the URL to be FILE://username@machine/pathname. For example, to log in as user "jdoe" to FTP site "ftp.yoyodyne.com", in the "/usr/jdoe" directory, give the URL: "file://jdoe@ftp.yoyodyne.com/usr/jdoe"

Mosaic will pop up a dialog box, asking to confirm the username and give your password. <B>Your password is maintained within Mosaic until you quit. Do <I>NOT</I> use this feature if you are security-paranoid.</B>

Gopher and FTP now use pretty icons for files/directories/etc, and FTP shows the file sizes.

New set of Configured Menus, with all kinds of pointers. Horizontal rules are prettier now.

Known bugs

----------

There is a bug with local file support, particularly with directory viewing, that causes GPFs.

Mosaic loses some GDI resources each time you run it. Restart Windows to regain the resources lost.

Future Features

----------

Forms support
Printing
User authorization
User Interface to Hotlist/Configurable menus
Document saving
Online documentation
Copy document to Clipboard
For all those having problems with the RS6000 binary. I have compiled a new binary, using gcc this time instead of the RS6000's native cc. Hopefully the Motif and X libraries are now properly statically linked for all the AIX platforms.

Let me know if this new binary isn't working for you.

Eric
Is there some reason why we can't migrate the SLAC WWW Home page to Unix, since VM is going away and anyway is a pain to use (long lines, install procedures etc.)?
Oracle and <FORM>

Files for WWWDaemon 2.13 are in

This is not a beta version, nor a prerelease but JUST an EXAMPLE. It must
be seriously tested (and debugged) and actually I can't do it.

I don't want to make a Perl version. I prefer wait DBPerl (middle 94).

Implement :

* method GET, PUT, POST, DELETE, SHOWMETHOD, CHECKIN and CHECKOUT

For method PUT and POST : it must be work even if the client only send
modified columns and not the whole form.

* <FORM METHOD="POST"> only for Oracle.
I don't like it : actually my server receive "POST" and execute GET, PUT,
POST ...

I prefer receive a header line "X-keyword: (atend)" (or any other line) to
signal me that the keyword follow header lines.

Don't implement :

* <TEXTAREA> : I've no idea how to add it.

Example :

```
table example (  
  url varchar(255) not null,  
)  
```
comment varchar(255) not null

column with tag <TEXTAREA> is ... ???

* RAW column: if you have a raw column in a table, you must create a
  view without this raw column and give access to the view.
  It is not a BUG, I don't like raw column.

The future release must have the tag <MH HIDDEN>.
I prefer send:

---

<Form>
<MH HIDDEN>
X-oracle: rowid='0000000000000', lock=wwwAAAa6578
</MH>
...
---

rather than, like actually:

---

<Form>
<Select NAME="rowid" OPTION>'0000000000000'</Select>
<Select NAME="lock" OPTION>wwwAAAa6578</Select>
...
---

Documentation is:
  http://moulon.inra.fr/update.html

Demo is:
  http://moulon.inra.fr/oracle/A/update/table?action=tables

Guy Decoux
decoux@moulon.inra.fr writes:

```
> <FORM>
> <MH HIDDEN>
> X-oracle: rowid='000000000000', lock=wwwAAAa6578
> </MH>
> You can also accomplish the same thing by putting the information
> in the ACTION:
> <FORM ACTION="http://server/rowid='000000000000'/lock=wwwAAAa6578/">
> --sanders
> ```
Received: from SLACVM by SLACVM.SLAC.STANFORD.EDU (Mailer R2.08 R208004) with BSMTP id 3029; Mon, 15 Nov 93 11:34:50 PST
Received: from hebe.SLAC.Stanford.EDU by SLACVM.SLAC.STANFORD.EDU (IBM VM SMTP V2R1) with TCP; Mon, 15 Nov 93 11:34:47 PST
Received: by hebe.SLAC.Stanford.EDU (AIX 3.2/UCB 5.64/SLAC 920508) id AA33711; Mon, 15 Nov 93 11:34:57 -0800
Date: Mon, 15 Nov 93 11:34:57 -0800
From: bebo@unixhub.SLAC.Stanford.EDU
Message-Id: <9311151934.AA33711@hebe.SLAC.Stanford.EDU>
Subject: field "METHOD" in "<FORM>"
To: bebo@slacvm.SLAC.Stanford.EDU

>> From: decoux@moulon.inra.fr (ts)
>> Subject: field "METHOD" in "<FORM>">
>> In-Reply-To: Paul Everitt's message of Thu,
>> 11 Nov 1993 18:53:54 +0600 <9311120053.AA05706@voltaire.ncts.navy.mil>
>> To: peveritt@pandora.ncts.navy.mil
>> Cc: www-talk@nxoc01.cern.ch
>> X-Envelope-To: BEBO@UNIXHUB.SLAC.STANFORD.EDU
>> Content-Transfer-Encoding: 7BIT

>> I saw your email a while back. I am *VERY* interested in using
>> HTML+ forms as a front end to Sybase. I am trying to explain it
>> to my Sybase programmer, but I'm not sure what is involved. What
>> is it on the server side that you are using to pass your data
>> from the form to the database?
>>
>> Hello,
>>
>> I use Oracle Precompilers.
>>
>> Example:
>>
>> When server receive:
>>
>> /oracle/A/update/PROJETS?action=update&selection=ROWID%3D%27000002BF.0000.0003%27&PROJET=Pl45&TYPE=type+P1
>
>> C program is something like this:
>>
>> putenv("ORACLE_SID=A");
>> putenv("ORACLE_HOME=/usr/local/oracle");
>> EXEC SQL CONNECT :username IDENTIFIED BY :password;
>> strcpy(tmp,"UPDATE PROJETS SET (PROJET='Pl45',TYPE='type P1') WHERE
>> ROWID='000002BF.0000.0003'");
>> EXEC SQL EXECUTE IMMEDIATE :tmp;
>> EXEC SQL COMMIT WORK RELEASE;
>>
>> Actually, it is a beta test version. When all is well, I put the complete
>> source of this interface on "moulon.inra.fr" in directory "/pub/www-oracle"
>
>> Guy Decoux
>>
>>
* How to Get to the DESY Web

If you have a WWW browser up and running (check commands 'www' or 'mosaic') try going to

http://info.desy.de/general/users.html

(this brings you to a document hierarchy on
C++/Literate Programming/Physics/Algorithms/GNU at DESY/Germany).

WWW-FAQ:
available via anonymous FTP from rtfm.mit.edu
in directory pub/usenet/news.answers/www-faq, or on WWW at URL

-----------------------------------

Marcus Speh, II.Inst.Theor.Physik,Luruper Chaussee 149, 22761 Hamburg,Germany
Phone: +49-40 8998 2178, Fax: +49-40 8998 2267, Private: +49-40 801392
Internet: <marcus@x4u.desy.de>, <na.speh@na-net.ornl.gov>
Newsgroups: comp.infosystems.gopher

From: john@hopf.math.nwu.edu (John Franks)
Subject: GN release 1.1: now supporting WAIS index searches
Date: 14 Nov 1993 19:33:11 GMT

GN Release 1.1
A Free Multi-protocol Server for Gopher and HTTP

FEATURES: ( * means new in version 1.1)

* Support for WAIS index searches. (See below) (*)
* HTTP support -- GN serves two protocols gopher0 and HTTP/1.0, the protocol used by WWW clients. GN recognizes the protocol from the request and responds appropriately. This allows the use of WWW browsers like Mosaic in their native mode.
* Per Directory Access control.
* Support for structured files.
* Support for compressed files.
* Built-in menu hierarchy searches.
* Free for any use, commercial or otherwise! (GNU license)

AVAILABLE BY ANONYMOUS FTP:

FTP to: ftp.acns.nwu.edu
Get file pub/gn/gn-1.1.tar.Z

OR VIA GOPHER:

Server: hopf.math.nwu.edu port 70
Get file: gn-1.1.tar.Z

You can also browse the source and documentation here.

Gn is a gopher/HTTP server which is written in C and runs under UNIX.
It is freely available for any use, commercial or otherwise. The software is freely redistributable under the terms of the GNU public license. There is good documentation -- three man pages and an extensive installation and maintenance guide.

Gn has "per directory" access control. You can have different access
(by IP address or subnet) to every directory if you want to. You don't need to run different servers on different ports to have different levels of access!

Gn supports the standard text and binary types, including sound and image. Index types include programs (or shell scripts) which return "virtual directories" and also "grep" type searches. GN runs only
under inetd. See the man page for details.

Starting with version 1.1 the GN gopher/http protocol server has support for WAIS index searches. This means you can index a collection of files with the index software designed for use with WAIS (Wide Area Information Server) and the gn server will respond to user queries by providing a menu of those documents from your collection which contain a match for the user supplied search term. Simple boolean combinations like 'horses and cows' or 'fox not goose' are supported.

WAIS index support is provided by means of an auxiliary program provided with the gn distribution, called waisgn. In order to use this program the server maintainer must first obtain and compile the WAIS software distribution. This provides the program waisindex which creates the indices and the libraries which must be linked with the waisgn program. When the gn server receives a WAIS index query it execs (in the UNIX sense) the waisgn program passing the search term to it. That is, it turns itself into the waisgn program by replacing the server in memory with the waisgn binary. There is no need to run a WAIS server.

One reason for this design is size. The gn server is relatively small and hence fairly efficient. The server I run is about 64K in size. The waisgn program source is small but the libraries with which it must be linked are not. The final binary for waisgn is 400K to 500K in size. The design with two separate programs has several advantages. First the efficiency of servers which are not using WAIS is not degraded by its presence. Also WAIS is a complicated system to set up and run. Having it done with a separate program makes it much easier to check that things are functioning correctly and fix them if they are not.

THANKS

I would like to thank the many people who have aided in the creation of the GN package, either through writing code or finding and fixing bugs. They include Earle Ake, Henry Cejtin, Mike Crowley, Paul DuBois, Don Gilbert, Jishnu Mukerji, Marko Nordberg, Jim Rees, Craig Milo Rogers, Stephen Trier, Ed Vielmetti, and Rico Tudor.

John Franks  Dept of Math. Northwestern University
john@math.nwu.edu
Problem no : 10840
Prob Title : GS processes from web2
Entered by : CAL
Reported by : CAL <Connie A. Logg> (2879) []
Reported on : 08/06/93 At: 1516
Occurred on : 08/06/93 At: 1516
Problem Area: WWW
Problem type: Support
Priority : 2 - Requires prompt attention
Status : 1 - Open, under investigation
Solver : TONYJ

Description:
When running web2 on Jupiter, I notice that after looking at several plot (postscript files) that I have a lot of GS processes laying around. This tends to fill up process slots on jupiter. How can these be terminated without terminating web2?
Problem no : 11001
Prob Title : Document Wrap-around in Midas
Entered by : BEBO
Reported by : BEBO <Howard V. White> (BEBO) []
Reported on : 09/21/93 At: 1059
Occurred on : 09/21/93 At: 1059
Problem Area: WWW
Problem type: Support
Priority : 3 - Requires attention as time permits
Status : 1 - Open, under investigation
Solver : TONYJ

Description:
Large documents are being "wrapped-around" or "self-overlaid" when viewed in Midas. An example is in
  gopher://jupiter.slac.stanford.edu:5070/00/Telephone%20Directory%20Reference%20Section

A link to an older version of this file is on the test front page and displays correctly. The above URL also displays correctly in XMosiac.
Problem no : 10999
Prob Title : Postscript Display in Midas
Entered by : BEBO
Reported by : BEBO <Howard V. White> (BEBO) []
Reported on : 09/21/93 At: 1049
Occurred on : 09/21/93 At: 1049
Problem Area: WWW
Problem type: Support
Priority : 3 - Requires attention as time permits
Status : 1 - Open, under investigation
Solver : TONYJ

Description:
Connie Logg reported to me that some Postscript documents are failing to display. An example is in
  gopher://gopher.hep.net:70/11/info_center/simple-times
all of the files listed are Postscript and have the .ps extension.
This page is referenced from the production Networking page.
Problem no : 11154
Prob Title : VM WWW server still dying occasionally
Entered by : JXH
Reported by : JXH <John H. Halperin> (2257)
Reported on : 11/15/93 At: 2250
Occurred on : 11/15/93 At: 2250
Problem Area: WWW
Problem type: Support
Priority : 3 - Requires attention as time permits
Status : 1 - Open, under investigation
Solver : BEBO

Description:
The VM WWW server has started crashing again, although not nearly so frequently as before the latest CERN server code was installed a week or so ago. So far, there's been one crash on Sunday 11/14, and two crashes today, Monday 11/15. In each case, the symptom has been that the TCPIP dsvm has forced the WWW server because it had no passive open on port 80.
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A link to an older version of this file is on the test front page and displays correctly. The above URL also displays correctly in XMosaic.
PROBTRAK 10999  AL  Dated 11/16/93 08:57:42  From disk BEBl91  Page  1

Problem no:  10999
Prob Title:  Postscript Display in Midas
Entered by:  BEBO
Reported by:  BEBO <Howard V. White> (BEBO) []
Reported on:  09/21/93  At:  1049
Occurred on:  09/21/93  At:  1049
Problem Area:  WWW
Problem type:  Support
Priority:  3  -  Requires attention as time permits
Status:  1  -  Open, under investigation
Solver:  TONYJ

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passive open on port 80.
DMSACC7241 192 replaces B (192)
DMSACP723I B (192) R/O
DMSACP7251 192 also = D disk
SCSDET0001: disk E (193) has not been changed
SCSDET0001: disk T (598) has not been changed
04:49:26 FGGET received: 192.76.129.20 FREEHEP/NAME/FWEB/FULL
Command 'EXEC FGGET 192.76.129.20 FREEHEP/NAME/FWEB/FULL' returned 53 lines.
Daemon: Socket 4 disconnected by peer
Daemon: Waiting for connection or message. (Mask=8 hex, max=6 hex).
Daemon: New incoming connection:
Daemon: Accepted new socket 4
Daemon: Waiting for connection or message. (Mask=18 hex, max=6 hex).
Message waiting on socket 4
Daemon: Reading socket 4 from host 192.108.134.10
FSearch 192.108.134.10 A JACOB Subfile= SPIRES
Command 'EXEC FSSEARCH 192.108.134.10 a jacob ( spires' returned 1089 lines.
04:57:00 * MSG FROM TCPIP : Forcing you because you have no passive open on TCP port 80
CONNECT= 16:34:51 VIRCPU= 001:23:21 TOTCPU= 002:06:15
LOGOFF AT 04:57:00 PST MONDAY 11/15/93 BY TCPIP