<table>
<thead>
<tr>
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<th>Size</th>
<th>Description</th>
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<td>09-Mar-1992 03:36</td>
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<td>binlist.html</td>
<td>30-Apr-1992 07:16</td>
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<td></td>
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<td></td>
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<td>1k</td>
<td></td>
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<td>18-Aug-1992 04:01</td>
<td>1k</td>
<td></td>
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<td>books.index</td>
<td>01-May-1992 06:48</td>
<td>1k</td>
<td></td>
</tr>
<tr>
<td>conf.html</td>
<td>18-Aug-1992 04:01</td>
<td>1k</td>
<td></td>
</tr>
<tr>
<td>conf.index</td>
<td>02-May-1992 10:07</td>
<td>1k</td>
<td></td>
</tr>
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<td>18-Mar-1992 08:07</td>
<td>1k</td>
<td></td>
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<td>30-Apr-1992 07:17</td>
<td>1k</td>
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<tr>
<td>default.html</td>
<td>18-Aug-1992 04:02</td>
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<td></td>
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<td>defaultx.1.html</td>
<td>18-Mar-1992 08:02</td>
<td>1k</td>
<td></td>
</tr>
<tr>
<td>defaultx.html</td>
<td>30-Apr-1992 07:16</td>
<td>1k</td>
<td></td>
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<tr>
<td>defaultx.html</td>
<td>18-Aug-1992 04:00</td>
<td>1k</td>
<td></td>
</tr>
<tr>
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<td></td>
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<td>experi.html</td>
<td>18-Aug-1992 04:00</td>
<td>1k</td>
<td></td>
</tr>
<tr>
<td>experi.index</td>
<td>01-May-1992 06:08</td>
<td>1k</td>
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<td>2k</td>
<td></td>
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<td>10-May-1992 04:37</td>
<td>1k</td>
<td></td>
</tr>
<tr>
<td>fget.@exec</td>
<td>24-Sep-1992 01:55</td>
<td>2k</td>
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</tr>
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<td>fget.exec</td>
<td>24-Sep-1992 01:57</td>
<td>2k</td>
<td></td>
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<td>fhadding.@html</td>
<td>11-May-1992 04:40</td>
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</tr>
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<td>fhadding.html</td>
<td>11-May-1992 04:40</td>
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</tr>
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</table>
slac.@html  18-Aug-1992  05:15   2k
slac.html    18-Aug-1992 13:21   3k
slacspea.html  18-Aug-1992 04:01   1k
slacspea.index  17-Aug-1992 17:40   1k
slldget.exec   17-Aug-1992 16:17   3k
smget.exec     03-Aug-1992 11:27   4k
spires.l@html  10-Mar-1992 02:41   1k
spires.@html   30-Apr-1992 07:17   1k
spires.html    18-Aug-1992 04:01   1k
spires.index   12-Dec-1991 07:59   1k
stores.l@html  09-Mar-1992 03:36   1k
stores.@html   30-Apr-1992 07:18   1k
stores.help    05-Mar-1992 02:43   21k
stores.html    18-Aug-1992 03:59   1k
stores.index   04-Mar-1992 07:51   1k
whereis.help   21-May-1992 06:20   2k
whereis.html   18-Aug-1992 03:59   1k
whereis.index  13-May-1992 04:43   2k
winters.filelist  13-Feb-1997 12:32  14k
winters.jcw106  13-Feb-1997 12:29  56k
wish.list      28-May-1992 04:30   1k
wizards.@html  18-Aug-1992 03:58   1k
wizards.html   20-Aug-1992 08:23   1k
www.192        13-Feb-1997 11:59   5k
www.files      30-Apr-1992 07:21   1k
www.history    28-Sep-1992 06:28  12k
www.inst$var   29-Apr-1992 10:38   1k
www.lastnews   14-May-1985 04:29   1k
www.newslist   23-Apr-1986 06:02   1k
www.owners     18-Aug-1992 04:05   1k
www.staff      29-Apr-1992 06:14   1k
xwhere.html    18-Aug-1992 03:58   1k

Apache/1.3.12 Server at www.slac.stanford.edu Port 80
All files are from the most recent surviving backup tape for WWW 192 after Tony Johnson created the first SLAC HTML page:

73 ) WWW 0192 dumped to file 72 of tape RL1547 on 10/07/92 at 05:06:37

Of a total of 130 files on SLACVM WWW 192 then, 50 were visible "production" pages, where a "page" is a file containing HTML and named either "HTML" or "INDEX". A file with "8" in its filetype is an older version of the file than was current when the backup tape was created.

Here are the visible "production" pages:

<table>
<thead>
<tr>
<th>Filename</th>
<th>Type</th>
<th>X1 V</th>
<th>X2 V</th>
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<tr>
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<td>72</td>
<td>66</td>
</tr>
<tr>
<td>FHMPROV</td>
<td>HTML</td>
<td>70</td>
<td>15</td>
</tr>
<tr>
<td>FHTUTOR</td>
<td>HTML</td>
<td>97</td>
<td>19</td>
</tr>
<tr>
<td>FHEDITOR</td>
<td>HTML</td>
<td>71</td>
<td>74</td>
</tr>
<tr>
<td>FHEMMAIL</td>
<td>HTML</td>
<td>50</td>
<td>21</td>
</tr>
<tr>
<td>FHSUBJS</td>
<td>HTML</td>
<td>69</td>
<td>71</td>
</tr>
<tr>
<td>FHIMPL</td>
<td>HTML</td>
<td>68</td>
<td>18</td>
</tr>
<tr>
<td>WIZARDS</td>
<td>HTML</td>
<td>73</td>
<td>31</td>
</tr>
<tr>
<td>HLMAIN</td>
<td>HTML</td>
<td>78</td>
<td>70</td>
</tr>
<tr>
<td>HLSTEER</td>
<td>HTML</td>
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<tr>
<td>SLAC</td>
<td>HTML</td>
<td>113</td>
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<tr>
<td>DEFAULT</td>
<td>HTML</td>
<td>75</td>
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<tr>
<td>CONF</td>
<td>HTML</td>
<td>71</td>
<td>9</td>
</tr>
<tr>
<td>BOOKS</td>
<td>HTML</td>
<td>75</td>
<td>9</td>
</tr>
<tr>
<td>SPIRES</td>
<td>HTML</td>
<td>73</td>
<td>9</td>
</tr>
<tr>
<td>SLACSPEA</td>
<td>HTML</td>
<td>52</td>
<td>9</td>
</tr>
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<td>PARTICLE</td>
<td>HTML</td>
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<tr>
<td>INSTITUT</td>
<td>HTML</td>
<td>71</td>
<td>9</td>
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<tr>
<td>HEPNAMES</td>
<td>HTML</td>
<td>75</td>
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</tr>
<tr>
<td>HEP</td>
<td>HTML</td>
<td>73</td>
<td>9</td>
</tr>
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<td>HTML</td>
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<td>HTML</td>
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<td>BIBLIO</td>
<td>INDEX</td>
<td>43</td>
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</tr>
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<td>BINLIST</td>
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<td>FHNARROW</td>
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</tr>
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<tr>
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1 9/15/92 20:01:40 SPC4
1 9/15/92 19:59:19 SPC4
1 9/15/92 19:57:19 SPC4
1 9/15/92 19:40:37 SPC4
1 9/15/92 19:37:24 SPC4
1 9/15/92 19:35:08 SPC4
1 9/10/92 19:19:57 SPC4
1 8/20/92 15:23:55 SPC4
1 8/20/92 15:18:08 SPC4
1 8/20/92 13:23:58 SPC4
1 8/18/92 20:21:05 SPC4
1 8/18/92 11:02:44 SPC4
1 8/18/92 11:01:55 SPC4
1 8/18/92 11:01:47 SPC4
1 8/18/92 11:01:31 SPC4
1 8/18/92 11:01:24 SPC4
1 8/18/92 11:01:16 SPC4
1 8/18/92 11:01:08 SPC4
1 8/18/92 11:00:58 SPC4
1 8/18/92 11:00:49 SPC4
1 8/18/92 11:00:41 SPC4
1 8/18/92 11:00:26 SPC4
1 8/18/92 10:59:20 SPC4
1 8/18/92 10:59:03 SPC4
1 8/18/92 10:58:45 SPC4
1 8/18/92 10:58:43 SPC4
1 8/18/92 10:58:43 SPC4
1 8/18/92 10:56:09 SPC4
1 8/18/92 0:40:19 SPC4
1 6/30/92 10:10:36 SPC4
1 5/28/92 16:29:07 SPC4
1 5/17/92 19:20:28 SPC4
1 5/17/92 19:19:19 SPC4
1 5/13/92 11:43:56 SPC4
1 5/11/92 11:40:38 SPC4
1 5/11/92 0:07:58 SPC4
1 5/10/92 23:54:47 SPC4
1 5/10/92 23:46:32 SPC4
1 5/10/92 19:01:45 SPC4
1 5/02/92 18:40:02 SPC4
1 5/02/92 17:36:52 SPC4
1 5/02/92 17:25:16 SPC4
1 5/02/92 17:07:27 SPC4
1 5/02/92 15:50:51 SPC4
The files were retrieved from the backup tape listed in file WWW 192 via a VM BATCH job submitted and run 13 Feb 1997. (See its spooled console file WINTERS JCW106.)

A VM CMS LISTFILE of the retrieved files is in file WINTERS FILELIST. All these files were moved to the UNIX AFS subdirectory given at the top of this README file on 13 Feb 1997.

According to the file WWW HISTORY, the actual first SLAC HTML page was INSTALLED in the experimental "production" system on WWW 192 with 17 other pages:

18Aug92 11:02:55 TONYJ  REP /OWN *  HTML  A
  APSNEWS HTML  A1 TDISK  195$
  BIBLIO HTML  A1 TDISK  195$
  BOOKS HTML  A1 TDISK  195$
  CONF HTML  A1 TDISK  195$
  DEFAULT HTML  A1 TDISK  195$
  DEFAULTX HTML  A1 TDISK  195$
  EXPERI HTML  A1 TDISK  195$
  HEP HTML  A1 TDISK  195$
  HEPNAMES HTML  A1 TDISK  195$
  INSTITUT HTML  A1 TDISK  195$
  PARTICLE HTML  A1 TDISK  195$
  SLAC HTML  A1 TDISK  195$
  SLACSPEA HTML  A1 TDISK  195$
  SPIRES HTML  A1 TDISK  195$
  STORES HTML  A1 TDISK  195$
  WHEREIS HTML  A1 TDISK  195$
  WIZARDS HTML  A1 TDISK  195$
  XWHERE HTML  A1 TDISK  195$

Moved from WWWTEST
18Aug92 12:14:51 TONYJ  REP SLAC HTML  A TDISK  195$
18Aug92 12:15:21 TONYJ  REP SLAC HTML  A TDISK  195$
18Aug92 20:21:16 TONYJ  REP SLAC HTML  TDISK  195$

and quickly revised three times that day. Through the luck of the draw, all four files were in this backup. See the slac.*html files, where * is a "wildcard."

Joan M. Winters
WHAT'S NEW, Friday, 24 July 1992

This is an example APS News item. Full access to all APS News information will be added soon (August 1992).

PHYSICISTS IN EUROPE, JAPAN AND CANADA OPPOSE SPACE STATION!

In an unprecedented joint statement issued today, the presidents of a group of major scientific societies, including The American Physical Society, fired a blast at Space Station Freedom. That's hardly news; they do it every year. But this time, the statement was accompanied by the translation of a statement adopted by the German Physical Society. Like their American colleagues, German physicists contend Space Station Freedom cannot be justified on the basis of economics or science. And it didn't stop with the Germans! The strongly worded German statement was endorsed by the Executive Committee of the European Physical Society and by the Presidents of The Physical Society of Japan, the Canadian Association of Physicists, and The American Physical Society; Japan, Europe and Canada are "partners" with the United States in the space station. Meanwhile, at a Capitol Hill press conference, Rep. Howard Wolpe (D-MI) released a letter signed by 75 of the most distinguished American space scientists; their letter contends the space station cannot be justified on the basis of its scientific usefulness or its importance to space exploration.

BUT PROPOONENTS OF THE SPACE STATION HAVE NOT BEEN IDLE EITHER.

On Tuesday, NASA Administrator Daniel Goldin and NIH Director Bernadine Healy signed a Memorandum of Understanding Regarding Biomedical and Behavioral Research. The matchmakers were none other than Barbara Mikulski (D-MD) and Jake Garn (R-UT), the top space station tub thumpers in the Senate. The agreement, which Mikulski hailed as "historic," is little more than a pledge to cooperate, but it is meant to give credibility to claims that space research will somehow lead to cures for disease on Earth. At the Hill press conference, Rep. Durbin (D-IL) commented that "Cancer cures are the last refuge of budgetary scoundrels."

SENATE COMMITTEE RESTORES $550M TO THE SUPERCOLLIDER IN FY 93!

The Appropriations Cmte yesterday left untouched that portion of a subcommittee report dealing with the SSC. The report calls for $623M for high-energy physics, $7.5M less than the Administration request. The Fermilab injector upgrade would get $25M, $5M below the request but $10M above the House number. In a surprise move, SSC champion Bennett Johnston (D-LA) folded the controversial Energy Strategy bill into the appropriations bill. The effect was to deflect the debate away from the SSC. Senator Bumpers (D-AR), who leads the opposition to the SSC, decided to withhold an amendment to kill the supercollider until the bill comes up on the floor. That could happen as early as next week.

LAMPF SUPPORT SHIFTED TO ATOMIC ENERGY DEFENSE APPROPRIATIONS.

With the venerable Los Alamos Meson Physics Facility facing termination, its $54M, plus $11M, was shifted to a defense account in a ploy credited to Sen. Domenici (R-NM). But Budget Director Richard Darman could rule that the move violates the "fire wall."

Robert L. Park OPA@AIP.bitnet The American Physical Society
SSC Library Catalog (TEST)

Search
Perform search using standard SPIRES terms.

Help
Get help for SPIRES
You can search this index. Type the keyword(s) you want to search for:

SSC Library Catalog (TEST)

Use standard SPIRES search terms such as...

find author Feynman, R
find title quark# and date after 1990
show search terms
browse subject quantum theory
SLACVM BINLIST Telephone and e-mail Directory

Find
  Find last-name, {first-name}

Help
  Help with BINLIST
SLACVM BINLIST Telephone and e-mail Directory

Find
  Find last-name, {,first-name}
Help
  Help with BINLIST
This is the SLAC directory containing such items as names, phone numbers, VM accounts, and office locations.
SLACVM BINLIST Telephone and e-mail Directory

Find
   Find last-name, {first-name}
Help
   Help with BINLIST
You can search this index. Type the keyword(s) you want to search for:

SLAC Phone and E-mail directory search.

Use standard SPIRES search terms such as...

    find name addis
    find name crane

<END>
SLACVM SPIRES HEP Preprint Database

Search
Perform search using standard SPIRES terms.

Help
Get help for SPIRES
You can search this index. Type the keyword(s) you want to search for:

SLAC SPIRES BOOKS  database search

Use standard SPIRES search terms such as...

   find author Perl, M
   find title UNIX and date after 1990
SPIRES - Conference Database - Past & Future HEP Conferences

Perform search using standard SPIRES terms.

Help:

Get help for SPIRES
You can search this index. Type the keyword(s) you want to search for:

SLAC SPIRES CONFERENCE database search

Use standard SPIRES search terms such as...

find date after June 1992 and place Dallas
find title lepton and date 1991
browse place paris
explain conf
SLACVM Information Service

BINLIST
  SLAC phone book with e-mail addresses
HEP
  SPIRES HEP preprint database
SLACVM Information Service

BINLIST
   SLAC phone book with e-mail addresses
HEP
   SPIRES HEP preprint database
SLACVM Information Service

BINLIST
   SLAC phone book with e-mail addresses
HEP
   SPIRES HEP preprint database
BOOKS
   SLAC Library Book Catalog
CONF
   Past & Future Particle Physics Conferences
HEPNAMESE-Mail addresses for Particle Physicists
INSTITUTIO
   HEP Addresses, Phone nos., Fax Nos.
PARTICLES<
   1992 Particle Properties Book - LBL PDG
EXPERIMENTS
   High-Energy Physics Experiments (PDG LBL-91)
SLACVM Information Service

BINLIST
   SLAC phone book with e-mail addresses
HEP
   SPIRES HEP preprint database
STORES
   SLAC Stores Catalog
SLACVM Information Service

BINLIST
    SLAC phone book with e-mail addresses

HEP
    SPIRES HEP preprint database

STORES
    SLAC Stores Catalog
SLACVM Information Service

BINLIST
  SLAC phone book with e-mail addresses
HEP
  SPIRES HEP preprint database
STORES
  SLAC Stores Catalog
BOOKS
  SLAC Library Book Catalog
CONF
  Past & Future Particle Physics Conferences
HEP NAMES
  E-Mail addresses for Particle Physicists
INSTITUTIONS
  HEP Addresses, Phone nos., Fax Nos.
PARTICLES
  1992 Particle Properties Book - LBL PDG
EXPERIMENTS
  High-Energy Physics Experiments (PDG LBL-91)
NETWORKING
  SLAC Computing and Networking
BIBLIO
  SSC Library Catalog (TEST)
SLAC SPEAK
  Glossary of SLAC-related acronyms and terms
SLAC-SPIRES EXPERIMENTS Database

Search
- Perform search using standard SPIRES terms.

Help
- Get help for SPIRES
You can search this index. Type the keyword(s) you want to search for:

SLAC-SPIRES EXPERIMENTS database (PDG)

Maintained by H. Galic (GALIC@SLACVM.BITNET)
for the LBL Particle Data Group

Use standard SPIRES language such as...

find author Perl, M
find title tau and date after 1979
find exp FNAL-741
browse exp CERN
browse author gittelman
show indexes
show filesize
explain experiments
You can search this index. Type the keyword(s) you want to search for:

SLAC-SPIRES EXPERIMENTS database (PDG)

Maintained by H. Galic (GALIC@SLACVM.BITNET) for the LBL Particle Data Group.

Search examples:

find author Perl, M
find title tau and date after 1979
find exp FNAL-741
find exp prefix serp
browse exp KEK
browse author gittelman
show indexes
explain experiments
/*
 * FGET EXEC - Process File Get command from WWW
 * George Crane, April 1992
 * Add escape sequence for FreeHep stuff Tonyj
 * Add escape sequence for Seminar stuff Tonyj
 */

Do Queued(); Parse Pull.; End

'Access 192 B'
Parse upper arg ip adr file '()' options
If SubStr(file,1,7)='FREEHEP' Then Do
'EXEC FHGET' ip adr file '()' options
Exit Rc
End

Else If SubStr(file,1,8)='SEMINARS' Then Do
'EXEC SMGET' ip adr file '()' options
Exit Rc
End

Else If SubStr(file,1,8)='SLDINGAMES' Then Do
'EXEC SLDGET' ip adr file '()' options
Exit Rc
End

Say time()' FGET received:' ip adr file '()' options
Parse var file file/'rest
Parse var file fn '.' ft .

If fn = 'WHEREIS' Then Do
Address CMS 'EXEC GETWHERE 'rest
Exit Queued()
End

If ft = '' then do /* attempt to initiate keyword search */
'EXECIO '+ DISKR' fn 'INDEX ( FINI'
Exit Queued()
End /* do */

if fn = 'DEFAULT' & ft = 'HTML' Then Do
/* if this is a slac ip addr then get special defaults */
If left(ip adr,7) = '134.79.' Then Do
fn = 'DEFAULT'
Say '.. SLAC user switching to 'fn' HTML'
End
End

If ft /= 'HTML' then do /* attempt to fetch file */
Queue '<PLAINTEXT>'
End /* do */

'EXECIO '+ DISKR' fn ft '( FINI'
Exit Queued()
/* FGET EXEC - Process File Get command from WWW */
/* George Crane, April 1992 */
/* Add escape sequence for FreeHep stuff Tonyj */

'Access 192 B'
Parse upper arg ip adr file '{' options
If SubStr(file,1,7)='FREEHEP' Then Do
 'EXEC FHGET' ip adr file '{' options
 Exit Rc
End

Say time() ' FGET received:' ip adr file '{' options
Parse var file fn '.', ft.

If ft = '' then do /* attempt to initiate keyword search */
 'EXECIO * DISKR' fn 'INDEX { FINI'
 Exit Queued()
End /* do */

if fn = 'DEFAULT' & ft = 'HTML' Then Do
 /* if this is a slac ip addr then get special defaults */
 If left(ip adr,7) = '134.79.' Then Do
 fn = 'DEFAULTX'
 Say '.. SLAC user switching to 'fn' HTML'
 End
End

If ft /= 'HTML' then do /* attempt to fetch file */
 Queue '<PLAINTEXT>'
End /* do */

'EXECIO * DISKR' fn ft '{ FINI'
Exit Queued()
If Queued() Then Do
   Say Queued() lines found in stack as follows:'
   Do Queued()
      Parse Pull string
      Say 'string
   End
End
'Access 192 B'
Parse upper arg ip_adr file '{' options
If SubStr(file,1,7)='FREEHEP' Then Do
   'EXEC FHGET' ip_adr file '{' options
   Exit Rc
End
Else If SubStr(file,1,8)='SEMINARS' Then Do
   'EXEC SMGET' ip_adr file '{' options
   Exit Rc
End
Else If SubStr(file,1,8)='SLDNAME' Then Do
   'EXEC SLDSMGET' ip_adr file '{' options
   Exit Rc
End
Say time() ' FGET received' ip_adr file '{' options
Parse var file file '/rest
Parse var file fn '.' ft .
If fn = 'WHEREIS' Then Do
   Address CMS 'EXEC GETWHERE 'rest
   Exit Queued()
End
If ft = '' then do /* attempt to initiate keyword search */
   'EXECIO * DISKR' fn 'INDEX { FINI
   Exit Queued()
End /* do */

if fn = 'DEFAULT' & ft = 'HTML' Then Do
   /* if this is a slac ip addr then get special defaults */
   If left(ip_adr,7) = '134.79.' Then Do
      fn = 'DEFAULTX'
      Say '.. SLAC user switching to 'fn' HTML'
   End
End
If ft != 'HTML' then do /* attempt to fetch file */
   Queue '<PLAINTEXT>'
End /* do */
'EXEC10 * DISKR' in ft '{ FINI'
Exit Queued()
/* *******************************************************************************/
/* FGET EXEC - Process File Get command from WWW */
/* George Crane, April 1992 */
/* Add escape sequence for FreeHep stuff Tonyj */
/* Add escape sequence for Seminar stuff Tonyj */
/* */
/* *******************************************************************************/

If Queued() > 0 Then Do
  Say Queued()' lines found in stack as follows:
  Do Queued()
    Parse Pull string
    Say ' 'string
  End
End
'Access 192 B'
Parse upper arg ip_adr file '(' options
If SubStr(file,1,7)='FREEHEP' Then Do
  'EXEC FHGET' ip_adr file '(' options
  Exit Rc
End

Else If SubStr(file,1,8)='SEMINARS' Then Do
  'EXEC SMGET' ip_adr file '(' options
  Exit Rc
End

Else If SubStr(file,1,8)='SLDNAME' Then Do
  'EXEC SLDGET' ip_adr file '(' options
  Exit Rc
End

Say time()' FGET received:' ip_adr file '(' options
Parse var file file'/'rest
Parse var file fn '.' ft .

If fn = 'WHEREIS' Then Do
  Address CMS 'EXEC GETWHERE 'rest
  Exit Queued()
End

If ft = '' then do /* attempt to initiate keyword search */
  'EXECIO + DISKR' fn 'INDEX ( FINI'
  Exit Queued()
End /* do */

if fn = 'DEFAULT' & ft = 'HTML' Then Do
  /* if this is a slac ip addr then get special defaults */
  If left(ip_adr,7) = '134.79.' Then Do
    fn = 'DEFAULTTX'
    Say '.. SLAC user switching to 'fn' HTML'
  End
End

If ft /= 'HTML' then do /* attempt to fetch file */
  Queue '<PLAINTEXT>'
End /* do */
'EXECIO ' DISKR' fn ft '(FIN1'
Exit Queued()
Submitting new software to FreeHEP

We are always looking for new software packages to add to the FreeHEP database. The only requirement for new items is that they be generally useful to the High Energy Physics community. If you have, or know of, any software that you think meets this criterium please let us know. In the first instance you should contact the editor for the subject area in which you think the package belongs. If you are unsure what area is appropriate feel free to contact the managing editor for guidance.

All software packages in FreeHEP are described by a .dbase file which resides on the FreeHEP anonymous FTP machine. A good way to submit new software is to create a .dbase file for the package and send it to the relevant editor. Once a new .dbase file is installed on the FreeHEP machine the spires and WWW databases will be automatically updated (after about a day).

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Further Information about FreeHEP

The idea of setting up a library of useful and easily accessible HEP software was first proposed at the HEPLIB meeting at the SSC Lab in September 1991 and again at La Londe in January 1992. At that meeting it was generally recognized that this was a worthwhile idea that should be actively pursued.

Benefits

There are many potential benefits of FreeHEP both to the HEP user community and to software writers. Users benefit by gaining knowledge of existing software, by gaining easy access to the software they want, by gaining from the experience of other users and by having easy access to authors so that bugs and other problems can be fixed quickly. Authors benefit by gaining a mechanism for distributing their software, by avoiding duplication of efforts, by getting bug reports and suggestions from users and by making contacts with potential collaborators. Since FreeHEP is meant to be an inclusive service to authors as well as to the HEP user community, there is no requirement on the form of software distribution and we leave it up to the authors to distribute their packages in whatever form is most convenient.

Organization

FreeHEP currently consists of a database of useful software, accessible using WWW, Spires, or directly from the FreeHEP anonymous FTP site. The anonymous FTP site also contains areas for reviews of software packages, and in some cases the actual software itself. Software packages are organized into subject areas, with one or more editors for each section, as well as a managing editor.

We also plan to set up News Groups for different subject areas and to publish some form of (electronic?) newsletter listing new packages and other topical information.

We encourage anyone who has, or knows of, software that they believe should be included in the FreeHEP database to let us know.

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Example FreeHEP .dbase file

The following is an example of a FreeHEP .dbase file. These simple text files are kept on the FreeHEP anonymous FTP machine and provide information on each of the packages in FreeHEP. These files are also imported into the Spires and WWW databases daily.

Name: HippoPlotamus
Version: 1.10
Date: May, 1992
Title: A package for 'tuple viewing and manipulation
Authors(s): Mike Gravina(SLAC,mfg@ebnextk.slac.stanford.edu)
            Paul Kunz(SLAC,pfk@kaon.slac.stanford.edu)
            Paul Rensing(SLAC,rensing@unixhub.slac.stanford.edu)
Contact: pfk@kaon.slac.stanford.edu
Subject Area(s): graphics_vis gui, analysis
News Group or Email: hippo_comment@ebnextk.slac.stanford.edu (e-mail)
Bug reports to: hippo_bug@ebnextk.slac.stanford.edu (e-mail)
Software Needed: XDR ANSI-C
Hardware Needed: A computer running VM, VMS or UNIX
Access: anonymous ftp from heplib.slac.stanford.edu
User Base:
Documentation: Included in TAR file
Published References: Proceedings of L'Agelonde workshop
See Also: HippoDraw
Abstract: HippoPlotamus is a n-tuple management and display package written in ANSI C with an object orientation. The management part is designed to be user friendly and also has a FORTRAN binding. Binary files use the XDR format so binary ftp can be done between machines of different architectures. Files can also converted from or to a plain text format and from HBOOK4 format with supplied utilities.

The display package can produce histograms, scatter plots, grey or color density plots, and x-y plots. It is designed to be friendly to one who implements an interactive application for visualizing the n-tuple data. Drivers for Display Postscript, X11, InterViews, UNIXPlot, line printer and PostScript printer are supplied.

HippoPlotamus has been tested on NeXT, SUN, RS/6000, Ultrix, SGI, VAX/VMS, and VM/CMS.
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Pavel Rensing(SLAC,rensing@unixhub.slac.stanford.edu)
Contact: pfkeb@kaon.slac.stanford.edu
Subject Area(s): graphics_viz_gui, analysis
News Group or Email: hippo_comment@ebnextk.slac.stanford.edu (e-mail)
Bug reports to: hippo_bug@ebnextk.slac.stanford.edu (e-mail)
Software Needed: XDR ANSI-C
Hardware Needed: A computer running VM, VMS or UNIX
Access: anonymous ftp from heplib.slac.stanford.edu
User Base:
Documentation: Included in TAR file
Published References: Proceedings of L'Agelonde workshop
See Also: HippoDraw
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How To use Anonymous FTP

If you are new to unix, you may not be familiar with ftp or copying files. On most machines, once you reach freeehp via ftp you will see a prompt like this:

    ftp>

From here, you can navigate the directory structure with % ls and % cd. To copy an ascii file to your home machine, do

    ftp> get filename  (case sensitive)

You may also see files with extensions ".tar", ".Z", or typically, both. The ".Z" indicates a compressed binary file which can be fetched like so:

    ftp> binary
    ftp> get xxxx.Z

On your home unix machine, you can uncompress it with the command

    % uncompress xxxx.Z

which produces the file "xxxx".

Files with the extension ".tar" are also binary files containing a packed collection of files possibly including subdirectories. To unpack such a file, do

    % tar xvf xxxx.tar

or see the tar command on your home unix machine.

You may also see files with a ".pac.Z" extension. These files can be unpacked with tar xvf and with the "% dupackag" command assuming that the "TYPES" package is installed.
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`% tar xvf xxxx.tar`

or see the tar command on your home unix machine.

You may also see files with a ".pac.Z" extension. These files can be unpacked with `tar xvf` and with the "% dupackag" command assuming that the "TYPES" package is installed.
Parse upper arg ip adr file '{' options

Say time() 'FHGET received:' ip adr file '{' options

Parse Var file subfile'/'rest
p = LastPos('/',rest)
mode = Substr(rest,p+1)
if p>0 Then criteria = Substr(rest,1,p-1)
   else criteria = ''
temp = criteria
n=0
Do While temp='',
   n = n+1
   Parse Var temp Index.n'/'Value.n'/'temp
   If Value.n='' Then Value.n=>''
   Else If Value.n='LASTDAY' Then Value.n=>''Date()'
   Else If Value.n='LASTWEEK' Then Value.n=>''$Date(''I'',-7)
   Else If Value.n='LAST2WEEKS' Then Value.n=>''$Date(''I'',-14)
   Else If Value.n='LASTMONTH' Then Value.n=>''$Date(''I'',-28)
   End

NCriteria = n
SpireSTerm = Index.1 Decode(Value.1)
Do i=2 to NCriteria
   SpireSTerm = SpireSTerm 'AND' Index.i Decode(Value.i)
End

Restart:

If mode='SHOWIND' Then Do

'EXEC QSPIRES SHOW IND ( STACK NOSTAR IN' subfile
j=0;
Do Queued()
   Parse Pull . 'Index:' term '({quals})'
   If term='' Then Iterate
   j = j+1
   Term.j = Strip(term)
   End

Queue '<TITLE>Index keywords available for FreeHEP</TITLE>'
Queue '<H2>Index keywords available for FreeHEP</H2>'

Queue 'Note: Commas separate synonyms.'
/*
 * We do not include indexes with no synonyms (for FreeHEP)
 */
end
Else Prefix = '<LI>'
Queue Prefix'<A HREF="/FIND/'subfile'/'term'//BROWSE>''
Queue Term.i'('</A>'
End
Queue '</UL>''
End

Else If mode='BROWSE' Then Do

n = nCriteria
'EXEC QSPIRES BROWSE' Index.n Value.n '( STACK NOSTAR IN' subfile
j = Queued()
Do i=1 to j
   Parse Pull Term.i
   Term.i = Strip(Term.i)
End

'EXEC QSPIRES SHOW ELEM DESC' Index.n '(STACK NOSTAR IN' subfile
Pull .
Pull .
jj = Queued()
Do i=1 to jj
   Parse Pull Desc.i
   Desc.i = Strip(Desc.i)
End

Queue '<TITLE>Browser' Index.n Decode(Value.n) ' for FreeHEP</TITLE>''
Queue '<H2>Browser' Index.n Decode(Value.n) ' for FreeHEP</H2>''
Queue '<IsIndex>'
Queue '<H3>Description</H3>''
Do i=1 to jj
   Queue Desc.i
End
Queue '<H3>Typical values</H3>''
Do i=1 to j
   If i=1 Then Prefix = '<UL>'
      Else Prefix = '<LI>'
         Queue Prefix'<A HREF="/FIND/'subfile'/'Index.n'/'Encode(Term.i)'//RESULT>''
         Queue Term.i'('</A>''
      End
   Queue '</UL>''
Queue 'Choose one of the above or type a new value.'
End

Else If mode='INDEX' Then Do

'EXEC QSPIRES FIND' SpiresTerm '( STACK NOSTAR IN' subfile 'BRIEF'

i = 0;
Do Queued()
   Parse Pull Line
   if Substr(Line,1,10)='No records' Then Do
      Do Queued()
      Pull.
      End
   Mode = 'RESULT'
   Signal Restart
End

Parse Var Line Title":' Name
Title = Strip(Title)
Name = Strip(Name)
If Title = 'Freehep Name' Then Do
  i=i+1
  Name.i = Name
  Title.i = ''
End
Else If Title = 'Title' Then Title.i = Name
Else If Title.i = '' Then Name.i = Name.i Strip(Line)
  Else Title.i = Title.i Strip(Line)
End

Queue '<TITLE>List of FreeHEP packages</TITLE>'
Queue '<H1>List of FreeHEP packages</H1>'
Queue '<DL>'
Do j=1 to i
  Queue '<DT><A HREF=/FIND/FREEHEP/NAME/'Encode(Name.j)'/FULL>'
    'Queue Name.j'</A>'
  If Title.j = '' Then Queue '<DD>'Title.j
End
Queue '</DL>'
End

Else If mode='RESULT' | mode='NARROW' Then Do

  'EXEC QSPIRESH FIND' SpireTerm '( STACK NOSTAR RESULT IN' subfile
  Parse Pull Line
  If Line = 'Invalid index term' Then Do
    If NCriteria=1 Then Do
      Queue 'Your index keyword ('Index.1') is invalid.'
    End
    Else Do
      Queue 'One of your index keywords ('Index.1
      Do i=2 to NCriteria-1
        Queue ',' Index.i
      End
      Queue 'or' Index.NCriteria') is invalid.'
    End
    Queue 'You can obtain a list of'
    Queue '<A HREF=/FIND/FREEHEP/SHOWIND>valid keywords</A> or'
    Queue '<A HREF=/FIND/FHSPIRES.HTML>start a new search</A>.'
    End
  Else Do
    Parse Var Line 'Result' N.
    if NCriteria=1 Then latin = "criterium"
      Else latin = "criteria"
    if NCriteria=1 Then are = "is"
      Else are = "are"
    Queue '<P>'
    Queue 'Your current search' latin are':'
    Do i=1 to NCriteria
      If i=1 Then Prefix = '<UL>'
        Else Prefix = '<LI>'
      Queue Prefix Index.i Decode(Value.i)
    End
    Queue '</UL>'
If n='', Then Queue 'No packages matched your search' latin'.
Else if n=1 Then Queue '1 package matched your search' latin'.
Else Queue N 'packages matched your search' latin'.

If Mode='RESULT' Then Do
   Queue '<P>You may now'
   if n=1 Then Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/FULL>'
      Queue 'examine the entry that matched your' latin'</A>',
   End
   Else if n>1 Then Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/INDEX>'
      Queue 'examine a list of items that matched your' latin'</A>',
      Queue 'continue to narrow down your search by specifying'
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/NARROW>'
      Queue 'further criteria</A>',
   End
   Else Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/BROWSE>'
      Queue 'browse a list of values</A> that almost matched your'
      Queue 'last criterium,'
   End
   Queue 'or <A HREF=/FIND/FHSPPIRES.HTML>start a new search</A>.'
   End
Else Do /* NARROW */
   Queue '<P>'
   'EXECIO * DISKR FHNARROW HTML { FINI'
   End
   End
Else Do

'EXEC QSPIRES FIND' SpiresTerm '{ STACK NOSTAR IN' subfile

Ref = ''
Title = ''
i=0
Do Queued()
   Parse Pull Line
   if Substr(Line,1,10)='No records' Then Do
      Do Queued()
      Pull.
   End
   Mode = 'RESULT'
   Signal Restart
   End

Parse Var Line . 'Freehep Name:' Name

if Name /= '' Then Do
   Title = Strip{Name}
   CPos = Index(Line,':')
   End

Parse Var Line . 'See Also:' Refs
if Refs = '' Then Do
   i = i+1
   Line.i = Line
   End
Else Ref = Refs
End

If Title/'/' Then Do
Queue '<TITLE>Title'</TITLE>'
Queue '<H1>Title'</H1>'
End

Queue '<dl>'
j=0
Do While j<i
  j=j+1
  If Substr(Line.j,CPos,1)=':' Then Do
    Parse Var Line.j Key ':' Stuff
    Key = Strip(Key)
    If Key='Subject Areas' Then Do
      Queue '<dt>'Key'</dt>'
      Do Until Stuff=''
        Parse Var Stuff Nonsense ',' Stuff
        Nonsense = Strip(Nonsense)
        Queue '<a href=/FIND/FREEHEP/SECTION/'Nonsense'/INDEX>'
        If Stuff=''' Then Queue Nonsense'</a>'
      Else Queue Nonsense'</a>}'
    End
    Else If Key='Abstract' Then Leave
    Else Queue '<dt>'Key'</dt>'Strip(Stuff)
  End
  Else Do
    templine = Strip(Line.j)
    If templine/'/' Then Queue templine
  End
Queue '</dl>'

if Ref/'/' Then Queue 'See also'
Do While Ref/'''
  Parse Var Ref R','Ref
  R = Strip(R)
  If Ref=''' Then Punc='''
    Else Punc='''
  Queue '<A HREF=/FIND/FREEHEP/NAME/'R'/FULL>'R'</A>'Punc
End

If j<i Then Queue '<h2>'Key'</h2>'Strip(Stuff)

Do While j<i
  j=j+1
  If Line.j='''' Then Queue '<p>'
  Else Queue Strip(Line.j)
End

'SHOWSTAK'

Return Queued()

/* Spires search term values may have spaces in them, but WWW filespecs
   cannot, so here we encode names.
*/
Encode: Procedure
Parse Arg String

Bad = '% ()?/><'
Good = '%BOCQSGL'

Out = ''
Do I=1 to Length(String)
  c = Substr(String, i, 1)
  if Index(bad, c) /= 0 Then Out = Out || Translate(c, good, bad)
  Else Out = Out || c
End
Return Out

Decode: Procedure
Parse Arg String

Bad = '% ()?/><'
Good = '%BOCQSGL'

Out = ''
Esc = 0
Do I=1 to Length(String)
  c = Substr(String, i, 1)
  if Esc Then Do
    Out = Out || Translate(c, bad, good)
    Esc = 0
  End
  Else if c = '%' Then Esc = 1
  Else Out = Out || c
End
Return Out
Parse upper arg ip adr file '(' options
Say time() 'FHGET received:' ip adr file '(' options

Parse Var file subfile'/rest
p = LastPos('/',rest)
mode = Substr(rest,p+1)
if p>0 Then criteria = Substr(rest,1,p-1)
    else criteria = ''
temp = criteria
n=0
Do While temp=''
    n = n+1
    Parse Var temp Index.n'/Value.n'/temp
    If Value.n='!' Then Value.n='a'
    Else If Value.n='LASTDAY' Then Value.n='"Date()'
    Else If Value.n='LASTWEEK' Then Value.n='"XDate('I',-7)
    Else If Value.n='LAST2WEEKS' Then Value.n='"XDate('I',-14)
    Else If Value.n='LASTMONTH' Then Value.n='"XDate('I',-28)
End
NCriteria = n
SpireTerm = Index.1 Decode(Value.1)
Do i=2 to NCriteria
    SpireTerm = SpireTerm 'AND' Index.i Decode(Value.i)
End

Restart:

If mode='SHOWIND' Then Do

'EXEC QSPIRES SHOW IND ( STACK NOSTAR IN' subfile
j=0;
Do Queued()
    Parse Full . 'Index:' term '('.quals')'.
    If term='"' Then Iterate
    j = j+1
    Term.j = Strip(term)
End

Queue '<TITLE>Index keywords available for FreeHEP</TITLE>'
Queue '<H2>Index keywords available for FreeHEP</H2>'
Queue 'Note: Commas separate synonyms.'
/*
* We do not include indexes with no synonyms (for FreeHEP)
*/
Do i=1 to j
    p = LastPos(',',Term.i)
    if p=0 Then Iterate
term = Strip(SubStr(Term.i,p+1))
    if i=1 Then Prefix = '<UL>'
Else Prefix = '<LI>'
Queue Prefix'<A HREF="/FIND/'subfile'/term'//BROWSE>''
Queue Term.i'</A>'
End
Queue '</UL>'
End

Else If mode='BROWSE' Then Do

n = nCriteria
'EXEC QSPIRES BROWSE' Index.n Value.n '( STACK NOSTAR IN' subfile
j = Queued()
Do i=1 to j
   Parse Pull Term.i
   Term.i = Strip(Term.i)
End

'EXEC QSPIRES SHOW ELEM DESC' Index.n '(STACK NOSTAR IN' subfile
Pull .
Pull .
jj = Queued()
Do i=1 to jj
   Parse Pull Desc.i
   Desc.i = Strip(Desc.i)
End

Queue '<TITLE>Browse' Index.n Decode(Value.n) ' for FreeHEP]}</TITLE>'
Queue '<H2>Browse' Index.n Decode(Value.n) ' for FreeHEP}</H2>'
Queue '<I>Index</I>'
Queue '<H3>Description</H3>'
Do i=1 to jj
   Queue Desc.i
End
Queue '<H3>Typical values</H3>'
Do i=1 to j
   If i=1 Then Prefix = '<UL>'
   Else Prefix = '<LI>'
   Queue Prefix'<A HREF="/FIND/'subfile'/Index.n'/Encode(Term.i)'/RESULT>''
   Queue Term.i'</A>'
   End
End
Queue '</UL>'
Queue 'Choose one of the above or type a new value.'
End

Else If mode='INDEX' Then Do

'EXEC QSPIRES FIND' SpirestTerm '( STACK NOSTAR IN' subfile 'BRIEF'

i = 0;
Do Queued()
   Parse Pull Line
   if Substr(Line,1,10)='No records' Then Do
      Do Queued()
         Pull.
      End
      Mode = 'RESULT'
      Signal Restart
   End

Parse Var Line Title":" Name
Title = Strip(Title)
Name = Strip(Name)
If Title = 'Freehep Name' Then Do
  i=i+1
  Name.i = Name
  Title.i = ""
End
Else If Title = 'Title' Then Title.i = Name
Else If Title.i = '' Then Name.i = Name.i Strip(Line)
  Else Title.i = Title.i Strip(Line)
End

Queue '<TITLE>List of FreeHEP packages</TITLE>''
Queue '<H1>List of FreeHEP packages</H1>'
Queue '<DL>'
Do j=1 to i
  Queue '<DT><A HREF=/FIND/FREEHEP/NAME/'Encode(Name.j)'/FULL>'
  Queue Name.j'</A>''
  If Title.J /= '' Then Queue '<DD>'Title.j
End
Queue '</DL>'
End
Else If mode='RESULT' | mode='NARROW' Then Do

'EXEC QSPIRES FIND' SpiresTerm '{ STACK NOSTAR RESULT IN' subfile Parse Full Line
If Line = 'Invalid index term' Then Do
  If NCriteria=1 Then Do
    Queue 'Your index keyword ('Index.1') is invalid.'
  End
  Else Do
    Queue 'One of your index keywords ('Index.1
    Do i=2 to NCriteria-1
      Queue ',' Index.i
    End
    Queue 'or' Index.NCriteria') is invalid.'
  End
Queue 'You can obtain a list of'
Queue '<A HREF=/FIND/FREEHEP/SHOWIND>valid keywords</A> or'
Queue '<A HREF=/FIND/FHSPIRES.HTML>start a new search</A>.'
End
Else Do
  Parse Var Line 'Result' N .
  if NCriteria=1 Then latin = "criterium"
    Else latin = "criteria"
  if NCriteria=1 Then are = "is"
    Else are = "are"
Queue '<P>
Queue 'Your current search' latin are':
Do i=1 to NCriteria
  If i=1 Then Prefix = '<UL>'
    Else Prefix = '<LI>'
  Queue Prefix Index.i Decode(Value.i)
End
Queue '</UL>''
If n=''
   Then Queue 'No packages matched your search' latin'.
Else If n=1 Then Queue '1 package matched your search' latin'.
   Else Queue N 'packages matched your search' latin'.

If Mode='RESULT' Then Do
   Queue '<P>You may now'
   if n=1 Then Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/FULL>'
      Queue 'examine the entry that matched your' latin'</A>,</P>',
      End
   Else if n>1 Then Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/INDEX>'
      Queue 'examine a list of items that matched your' latin'</A>,</P>',
      Queue 'continue to narrow down your search by specifying'
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/NARROW>'
      Queue 'further criteria</A>,</P>',
      End
   Else Do
      Queue '<A HREF=/FIND/FREEHEP/'criteria'/BROWSE>'
      Queue 'browse a list of values</A> that almost matched your'
      Queue 'last criterium'</P>',
      End
   Queue 'or <A HREF=/FIND/FSPIRES.html>start a new search</A>.'</P>',
      End
Else Do /* NARROW */
   Queue '<P>'
      'EXECIO * DISKR FHNARROW HTML ( FINI'
      End
   End
Else Do

'EXEC QSPIRES FIND' SpiresTerm '{ STACK NOSTAR IN' subfile

Ref = ''
Title = ''
i=0
Do Qedteed()
   Parse Pull Line
   if Substr(Line,1,10)='No records' Then Do
      Do Queueed()
      Pull.
      End
      Mode = 'RESULT'
      Signal Restart
      End
   Parse Var Line . 'Freehep Name:' Name
   if Name /= '' Then Do
      Title = Strip(Name)
      CPos = Index(Line,':')
      End
   Parse Var Line . 'See Also:' Refs
   if Refs = '' Then Do
      i = i+1
      Line.i = Line
      End
Else Ref = Refs
End

If Title="" Then Do
Queue '<TITLE>Title'</TITLE>'
Queue '<H1>Title'</H1>'
End

Queue '<dl>'
j=0
Do While j<i
  j=j+1
  If Substr(Line,j,CPos,1)=":'" Then Do
    Parse Var Line.j Key ':' Stuff
    Key = Strip(Key)
    If Key="Subject Areas" Then Do
      Queue '<dt>'Key'</dd>'
      Do Until Stuff=""'
        Parse Var Stuff Nonsense ',' Stuff
        Nonsense = Strip(Nonsense)
        Queue '<a href=/FIND/FREEHEP/SECTION/Nonsense/INDEX>'
        If Stuff="" Then Queue Nonsense'</a>'
      Else Queue Nonsense'</a>,</'
    End
    Else If Key="Abstract" Then Leave
    Else Queue '<dt>'Key'</dd>'Strip(Stuff)
  End
  Else Queue Strip(Line.j)
End
Queue '</dl>'

if Ref="/" Then Queue 'See also'
Do While Ref="/"
  Parse Var Ref R,"Ref
  R = Strip(R)
  if Ref="/" Then Punc=".'"
    Else Punc="'
  Queue '<A HREF=/FIND/FREEHEP/NAME/R'/FULL>R'</A>'Punc
End

If j<i Then Queue '<h2>'Key'</h2>'Strip(Stuff)

Do While j<i
  j=j+1
  If Line.j="" Then Queue '<p>'
  Else Queue Strip(Line.j)
End
End

'SHOWSTAK'

Return Queued()

/* Spires search term values may have spaces in them, but WWW filespecs
cannot, so here we encode names.
*/

Encode: Procedure
Parse Arg String
Bad = '% ()?<>'
Good = '%BOCQSGL'

Out = ''
Do I=1 to Length(String)
    c = Substr(String,i,1)
    if Index(bad,c)/=0 Then Out = Out||'%'|Translate(c,good,bad)
    Else Out = Out||c
End
Return Out

Decode: Procedure
Parse Arg String

Bad = '% ()?<>'
Good = '%BOCQSGL'

Out = ''
Esc = 0
Do I=1 to Length(String)
    c = Substr(String,i,1)
    if Esc Then Do
        Out = Out||Translate(c,bad,good)
        Esc = 0
    End
    Else if c = '%' Then Esc = 1
    Else Out = Out||c
End
Return Out
Parse upper arg ip_adr file '(' options
Say time() 'FHGET received:' ip_adr file '(' options

Parse Var file subfile'/'rest
p = LastPos('/',rest)
mode = Substr(rest,p+1)
if p>0 Then criteria = Substr(rest,1,p-1)
    else criteria = ''
temp = criteria
n=0
Do While temp='' 
    n = n+1
    Parse Var temp Index.n'/Value.n'/temp
    If Value.n='' Then Value.n='a'
    Else If Value.n='LASTDAY' Then Value.n='"Date()'
    Else If Value.n='LASTWEEK' Then Value.n='"XDate('I',-7)'
    Else If Value.n='LAST2WEEKS' Then Value.n='"XDate('I',-14)'
    Else If Value.n='LASTMONTH' Then Value.n='"XDate('I',-28)'
End
NCriteria = n
SpireTerm = Index.1 Decode(Value.1)
Do i=2 to NCriteria
    SpireTerm = SpireTerm 'AND' Index.i Decode(Value.i)
End

Restart:
If mode='SHOWIND' Then Do

'EXEC QSPIRES SHOW IND ( STACK NOSTAR IN' subfile
j=0;
Do Queue()
    Parse Pull . 'Index:' term '(':quals')'.
    If term='' Then Iterate
    j = j+1
    Term.j = Strip(term)
End

Queue '<TITLE>Index keywords available for FreeHEP</TITLE>'
Queue '<H2>Index keywords available for FreeHEP</H2>'

Queue 'Note: Commas separate synonyms.'
/*
 * We do not include indexes with no synonyms (for FreeHEP)
 */
Do i=1 to j
p = LastPos(';',Term.i)
if p=0 Then Iterate
    term = Strip(SubStr(Term.i,p+1))
    If i=1 Then Prefix = '<UL>'
Else Prefix = '<LI>'
  Queue Prefix'<A HREF="/FIND/'subfile'/term'//BROWSE'"
  Queue Term.i'</A>'
End
Queue '</UL>'
End

Else If mode='BROWSE' Then Do

  n = nCriteria
  'EXEC QSPIRES BROWSE' Index.n Value.n '{ STACK NOSTAR IN' subfile
  j = Queued()
  Do i=1 to j
    Parse Pull Term.i
    Term.i = Strip(Term.i)
  End

  'EXEC QSPIRES SHOW ELEM DESC' Index.n '{STACK NOSTAR IN' subfile
  Pull .
  Pull .
  jj = Queued()
  Do i=1 to jj
    Parse Pull Desc.i
    Desc.i = Strip(Desc.i)
  End

  Queue '<TITLE>Browse' Index.n Decode(Value.n) ' for FreeHEP'</TITLE>'
  Queue '<H2>Browse' Index.n Decode(Value.n) ' for FreeHEP'</H2>'
  Queue '<ISINDEX>'
  Queue '<H3>Description'</H3>'
  Do i=1 to jj
    Queue Desc.i
  End
  Queue '<H3>Typical values'</H3>'
  Do i=1 to j
    If i=1 Then Prefix = '<UL>'
        Else Prefix = '<LI>'
          Queue Prefix'<A HREF="/FIND/'subfile'/Index.n'/'Encode(Term.i)'/RESULT'"
          Queue Term.i'</A>'
        End
    Queue '</UL>'
  Queue 'Choose one of the above or type a new value.'
End

Else If mode='INDEX' Then Do

  'EXEC QSPIRES FIND' SpirestTerm '{ STACK NOSTAR IN' subfile 'BRIEF'

  i = 0;
  Do Queued()
    Parse Pull Line
    if Substr(Line,1,10)='No records' Then Do
      Do Queued()
        Pull.
      End
      Mode = 'RESULT'
    Signal Restart
  End
  Parse Var Line Title"." Name
Title = Strip(Title)
Name = Strip(Name)
If Title = 'Freehep Name' Then Do
  i=i+1
  Name.i = Name
  Title.i = ""
End
Else If Title = 'Title' Then Title.i = Name
Else If Title.i = '' Then Name.i = Name.i Strip(Line)
  Else Title.i = Title.i Strip(Line)
End

Queue '<TITLE>List of FreeHEP packages</TITLE>'
Queue '<H1>List of FreeHEP packages</H1>'
Queue '<DL>'
Do j=1 to i
  Queue '<DT><A HREF="/FIND/FREEHEP/NAME/'Encode(Name.j)'/'FULL>/
  Queue Name.j'</A>'
  If Title.j /= '' Then Queue '<DD>'Title.j
End
Queue '</DL>'
End

Else If mode='RESULT' | mode='NARROW' Then Do

'EXEC QSPIRES FIND' SpiresTerm '( STACK NOSTAR RESULT IN' subfile
Parse Pull Line
If Line = 'Invalid index term' Then Do
  If NCriteria=1 Then Do
    Queue 'Your index keyword ('Index.1') is invalid.'
  End
Else Do
  Queue 'One of your index keywords ('Index.1
  Do i=2 to NCriteria=1
    Queue ',' Index.i
  End
  Queue 'or' Index.NCriteria') is invalid.'
End
Queue 'You can obtain a list of'
Queue '<A HREF="/FIND/FREEHEP/SHOWIND>valid keywords</A>' or'
Queue '<A HREF="/FIND/QSPIRES.HTML>start a new search</A>.'
End
Else Do
  Parse Var Line 'Result' N .
  if NCriteria=1 Then latin = "criterium"
    Else latin = "criteria"
  if NCriteria=1 Then are = "is"
    Else are = "are"
  Queue '<P>'
  Queue 'Your current search' latin are':
  Do i=1 to NCriteria
    If i=1 Then Prefix = '<UL>'
        Else Prefix = '<LI>'
    Queue Prefix Index.i Decode(Value.i)
  End
  Queue '</UL>'
If n='' Then Queue 'No packages matched your search' latin'.
Else If n=1 Then Queue '1 package matched your search' latin'.
Else Queue N 'packages matched your search' latin'.

If Mode='RESULT' Then Do
  Queue '<P>You may now'
  if n=1 Then Do
    Queue '<A HREF=/FIND/FREEHEP/'criteria'/FULL>'
    Queue 'examine the entry that matched your' latin'</A>',
  End
  Else if n>1 Then Do
    Queue '<A HREF=/FIND/FREEHEP/'criteria'/INDEX>'
    Queue 'examine a list of items that matched your' latin'</A>',
    Queue 'continue to narrow down your search by specifying'
    Queue '<A HREF=/FIND/FREEHEP/'criteria'/NARROW>'
    Queue 'further criteria'</A>',
  End
  Else Do
    Queue '<A HREF=/FIND/FREEHEP/'criteria'/BROWSE>'
    Queue 'browse a list of values'</A> that almost matched your'
    Queue 'last criterium,'
  End
  Queue 'or <A HREF=/FIND/FHSPIRES.HTML>start a new search'</A>.'
End
Else Do /* NARROW */
  Queue '<P>
    'EXECIO *. DISKR FH NARROW HTML ( FINI'
End
End
Else Do

'EXEC QSPIRES FIND' SpiresTerm '( STACK NOSTAR IN' subfile

Ref = ''
Title = ''
i=0
Do Queued()
Parse Pull Line
if Substr(Line,1,10)='No records' Then Do
  Do Queued()
  Full.
  End
  Mode = 'RESULT'
  Signal Restart
End

Parse Var Line . 'Freehep Name:' Name
if Name /= '' Then Do
  Title = Strip(Name)
  CPos = Index(Line,':')
End

Parse Var Line . 'See Also:' Refs
if Refs = '' Then Do
  i = i+1
  Line.i = Line
End
Else Ref = Refs
End

If Title='' Then Do
    Queue '<TITLE>Title'</TITLE>'
    Queue '<H1>Title'</H1>'
End

Queue '<dl>'
j=0
Do While j<i
    j=j+1
    If Substr(Line.j,CPos,1)=':' Then Do
        Parse Var Line.J Key ':' Stuff
        Key = Strip(Key)
        If Key='Subject Areas' Then Do
            Queue '<dt>'Key'</dt>'
            Stuff=''
            Parse Var Stuff Nonsense ',' Stuff
            Nonsense = Strip(Nonsense)
            Queue '<a href=/FIND/FREEHEP/SECTION/'Nonsense'/'INDEX>'
            If Stuff='' Then Queue Nonsense'</a>'
            Else Queue Nonsense'</a>,'
        End
    End
    Else If Key='Abstract' Then Leave
    Else Queue '<dt>'Key'</dt>'Strip(Stuff)
End
Else Do
    templine = Strip(Line.j)
    If templine='' Then Queue templine
End
End
Queue '</dl>'

if Ref='' Then Queue 'See also'
Do While Ref='''
    Parse Var Ref R',Ref
    R = Strip(R)
    if Ref='' Then Punc=''
    Else Punc=''
    Queue '<A HREF=/FIND/FREEHEP/NAME/'R'/FULL>'R'</A>'Punc
End

If j<i Then Queue '<h2>'Key'</h2>'Strip(Stuff)

Do While j<i
    j=j+1
    If Line.j='' Then Queue '<p>'
    Else Queue Strip(Line.j)
End
End

'SHOWSTAK'

Return Queued()

/* Spirca search term values may have spaces in them, but WWW filespecs
cannot, so here we encode names.*/
+/
Encode: Procedure
Parse Arg String

Bad = '()%?<>'
Good = '%%BOCQSGL'

Out = ''
Do I=1 to Length(String)
  c = Substr(String, i, 1)
  if Index(bad, c) = 0 Then Out = Out || 'Translate(c, good, bad)
  Else Out = Out || c
End
Return Out

Decode: Procedure
Parse Arg String

Bad = '()%?<>'
Good = '%%BOCQSGL'

Out = ''
Esc = 0
Do I=1 to Length(String)
  c = Substr(String, i, 1)
  if Esc Then Do
    Out = Out || 'Translate(c, bad, good)
    Esc = 0
  End
  Else if c = '%' Then Esc = 1
  Else Out = Out || c
End
Return Out
Parse upper arg ip_adr file '()' options

Say time() 'FHGET received: ' ip_adr file '()' options

Parse Var file subfile'/rest
p = LastPos(';',rest)
mode = Substr(rest,p+1)
if p>0 Then criteria = Substr(rest,1,p-1)
else criteria = ''
temp = criteria
n=0
Do While temp/=''
  n = n+1
  Parse Var temp Index.n'/Value.n'/temp
  If Value.n='*' Then Value.n='a'
  Else If Value.n='LASTDAY' Then Value.n=''="Date()
  Else If Value.n='LASTWEEK' Then Value.n=''="XDate('I',-7)
  Else If Value.n='LAST2WEEKS' Then Value.n=''="XDate('I',-14)
  Else If Value.n='LASTMONTH' Then Value.n=''="XDate('I',-28)
  End
  NCriteria = n
  SpiresTerm = Index.1 Decode(Value.1)
  Do i=2 to NCriteria
    SpiresTerm = SpiresTerm 'AND' Index.i Decode(Value.i)
  End

Restart:

If mode='SHOWIND' Then Do

'EXEC QSPIRES SHOW IND ( STACK NOSTAR IN' subfile
j=0;
Do Queued()
  Parse Pull . 'Index: term '>('quals')'.
  If term='' Then Iterate
  j = j+1
  Term.j = Strip(term)
  End

Queue '<TITLE>Index keywords available for FreeHEP</TITLE>'
Queue '<H2>Index keywords available for FreeHEP</H2>'

Queue 'Note: Commas separate synonyms.'
/
  We do not include indexes with no synonyms (for FreeHEP)
*/
Do i=1 to j
  p = LastPos(';',Term.i)
  if p=0 Then Iterate
  term = Strip(SubStr(Term.i,p+1))
  If i=1 Then Prefix = '<UL>'
Else Prefix = '<LI>'
Queue Prefix '<A HREF="/FIND/'subfile'/'term'//BROWSE'>'
Queue Term.i'</A>'
Else
Queue '</UL>'
End
End

Else If mode='BROWSE' Then Do

n = nCriteria
'EXEC QSPIRES BROWSE' Index.n Value.n '{ STACK NOSTAR IN' subfile
j = Queued()
Do i=1 to j
  Parse Pull Term.i
  Term.i = Strip(Term.i)
End

'EXEC QSPIRES SHOW ELEM DESC' Index.n '{STACK NOSTAR IN' subfile
  Pull .
  Pull .
jj = Queued()
Do i=1 to jj
  Parse Pull Desc.i
  Desc.i = Strip(Desc.i)
End

Queue '<TITLE>Browser' Index.n Decode(Value.n) 'for FreeHEP'</TITLE>'
Queue '<H2>Browse' Index.n Decode(Value.n) 'for FreeHEP'</H2>'
Queue '<ISINDEX>'
Queue '</H3>Description'</H3>'
Do i=1 to jj
  Queue Desc.i
End
Queue '<H3>Typical values'</H3>'
Do i=1 to j
  If i=1 Then Prefix = '<UL>'
    Else Prefix = '<LI>'
    Queue Prefix '<A HREF="/FIND/'subfile'/'Index.n'/'Encode(Term.i)'//RESULT'>'
  Queue Term.i'</A>'
End
Queue '</UL>'
Queue 'Choose one of the above or type a new value.'
End

Else If mode='INDEX' Then Do

'EXEC QSPIRES FIND' SpirestTerm '{ STACK NOSTAR IN' subfile 'BRIEF'

i = 0;
Do Queued()
  Parse Pull Line
  if Substr(Line,1,10)='No records' Then Do
    Do Queued()
      Pull .
    End
    Mode = 'RESULT'
    Signal Restart
  End
Parse Var Line Title":" Name