

```

#ifdef __STDC__
PUBLIC int HTInetStatus(char *where)
#else
PUBLIC int HTInetStatus(where)
    char    *where;
#endif
{
    CTRACE(tfp, "TCP: Error %d in `errno' after call to %s() failed.\n\t%s\n",
        errno, where,
#ifdef VM
        "(Error number not translated)"); /* What Is the VM equiv? */
#define ER_NO_TRANS_DONE
#endif
#ifdef vms
        "(Error number not translated)");
#define ER_NO_TRANS_DONE
#endif
#ifdef NeXT
        strerror(errno));
#define ER_NO_TRANS_DONE
#endif

#ifdef ER_NO_TRANS_DONE
    errno < sys_nerr ? sys_errlist[errno] : "Unknown error" );
#endif

#ifdef vms
    CTRACE(tfp, "          Unix error number (uerrno) = %ld dec\n", uerrno);
    CTRACE(tfp, "          VMS error (vmserro)      = %lx hex\n", vmserro);
#endif
    return -errno;
}

/*      Parse a cardinal value                                parse_cardinal()
**      -----
**
** On entry,
**      *pp          points to first character to be interpreted, terminated by
**                  non 0:9 character.
**      *pstatus     points to status already valid
**      maxvalue     gives the largest allowable value.
**
** On exit,
**      *pp          points to first unread character
**      *pstatus     points to status updated iff bad
**
#ifdef __STDC__
PUBLIC unsigned int HTCardinal(int *pstatus,
    char    **pp,
    unsigned int    max_value)
#else
PUBLIC unsigned int HTCardinal(pstatus, pp, max_value)
    int    *pstatus;
    char    **pp;
    unsigned int    max_value;
#endif
{
    int    n;

```

```

    if ( (**pp<'0') || (**pp>'9')) {          /* Null string is error */
        *pstatus = -3; /* No number where one expected */
        return 0;
    }

    n=0;
    while ((**pp>='0') && (**pp<='9')) n = n*10 + *((*pp)++) - '0';

    if (n>max_value) {
        *pstatus = -4; /* Cardinal outside range */
        return 0;
    }

    return n;
}

/*      Produce a string for an internet address
**      -----
**
** On exit,
**      returns a pointer to a static string which must be copied if
**      it is to be kept.
*/
#ifdef __STDC__
PUBLIC const char * HTInetString(struct sockaddr_in* sin)
#else
PUBLIC char * HTInetString(sin)
    struct sockaddr_in *sin;
#endif
{
    static char string[16];
    sprintf(string, "%d.%d.%d.%d",
        (int)*((unsigned char *)(&HTHostAddress.sin_addr) +0),
        (int)*((unsigned char *)(&HTHostAddress.sin_addr) +1),
        (int)*((unsigned char *)(&HTHostAddress.sin_addr) +2),
        (int)*((unsigned char *)(&HTHostAddress.sin_addr) +3));
    return string;
}

/*      Parse an internet node address and port
**      -----
**
** On entry,
**      str      points to a string with a node name or number,
**                with optional trailing colon and port number.
**      sin      points to the binary internet address field.
**
** On exit,
**      *sin     is filled in. If no port is specified in str, that
**                field is left unchanged in *sin.
*/
#ifdef __STDC__
PUBLIC int HTParseInet(struct sockaddr_in* sin, const char *str)
#else
PUBLIC int HTParseInet(sin, str)
    struct sockaddr_in *sin;
    char *str;
#endif

```

```

{
    char *port;
    char host[256];
    struct hostent *phost;    /* Pointer to host - See netdb.h */
    strcpy(host, str);        /* Take a copy we can mutilate */

/*      Parse port number if present
*/
    if (port=strchr(host, ':')) {
        *port++ = 0;          /* Chop off port */
        if (port[0]>='0' && port[0]<='9') {
            sin->sin_port = htons(strtol(port, (char**)0 , 10));
        } else {
#ifdef SUPPRESS                /* 1. crashes!?! 2. Not recommended */
            struct servent *serv = getservbyname(port, (char*)0);
            if (serv) sin->sin_port = serv->s_port;
            else if (TRACE) printf("TCP: Unknown service %s\n", port);
#endif
        }
    }

/*      Parse host number if present
*/
    if (*host>='0' && *host<='9') { /* Numeric node address: */
        sin->sin_addr.s_addr = inet_addr(host); /* See arpa/inet.h */
    } else { /* Alphanumeric node name: */
#ifdef MVS /* Outstanding problem with crsh in MVS gethostbyname */
        if (TRACE) printf("HTTCP: Calling gethostbyname(%s)\n", host);
#endif
        phost=gethostbyname(host); /* See netdb.h */
#ifdef MVS
        if (TRACE) printf("HTTCP: gethostbyname() returned %d\n", phost);
#endif
        if (!phost) {
            if (TRACE) printf(
                "HTTAccess: Can't find internet node name '%s'.\n", host);
            return -1; /* Fail? */
        }
        memcpy(&sin->sin_addr, phost->h_addr, phost->h_length);
    }

    if (TRACE) printf(
        "TCP: Parsed address as port %d, IP address %d.%d.%d.%d\n",
        (unsigned int)ntohs(sin->sin_port),
        (int)*((unsigned char *)(&sin->sin_addr)+0),
        (int)*((unsigned char *)(&sin->sin_addr)+1),
        (int)*((unsigned char *)(&sin->sin_addr)+2),
        (int)*((unsigned char *)(&sin->sin_addr)+3));

    return 0; /* OK */
}

/*      Derive the name of the host on which we are
**      -----
**

```

```

*/
#ifdef __STDC__
PRIVATE void get_host_details(void)
#else
PRIVATE void get_host_details()
#endif

#ifdef MAXHOSTNAMELEN
#define MAXHOSTNAMELEN 64 /* Arbitrary limit */
#endif

{
    char name[MAXHOSTNAMELEN+1]; /* The name of this host */
    struct hostent * phost; /* Pointer to host -- See netdb.h */
    int namelength = sizeof(name);

    if (hostname) return; /* Already done */
    gethostname(name, namelength); /* Without domain */
    TRACE(tfp, "TCP: Local host name is %s\n", name);
    phost=gethostbyname(name); /* See netdb.h */
    if (!phost) {
        if (TRACE) printf(
            "TCP: Can't find my own internet node address for '%s'!!\n",
            name);
        return; /* Fail! */
    }
    StrAllocCopy(hostname, phost->h_name);
    memcpy(&HHostAddress, &phost->h_addr, phost->h_length);
    if (TRACE) printf("    Name server says that is '%s' = %s\n",
        hostname, HTInetString(&HHostAddress));
}

#ifdef __STDC__
PUBLIC const char * HHostName(void)
#else
PUBLIC char * HHostName()
#endif
{
    get_host_details();
    return hostname;
}

```

```

/*          Generic Communication Code          HTTP.h
**          =====
**
**          Requires tcp.h to be included first.
*/
#ifdef SHORT_NAMES
#define HTInetStatus      HTInStat
#define HTInetString      HTInStri
#define HTParseInet       HTPaInet
#endif

/*          Produce a string for an internet address
**          -----
**
**          On exit,
**          returns a pointer to a static string which must be copied if
**          it is to be kept.
*/
#ifdef __STDC__
extern const char * HTInetString(struct sockaddr_in* sin);
#else
extern char * HTInetString();
#endif

/*          Encode INET status (as in sys/errno.h)          inet_status()
**          -----
**
**          On entry,
**          where          gives a description of what caused the error
**          global errno    gives the error number in the unix way.
**
**          On return,
**          returns          a negative status in the unix way.
*/
#ifdef __STDC__
extern int HTInetStatus(char *where);
#else
extern int HTInetStatus();
#endif

/*          Publicly accesible variables
*/
extern struct sockaddr_in HTHostAddress; /* The internet address of the host */
/* Valid after call to HTHostName() */

/*          Parse a cardinal value          parse_cardinal()
**          -----
**
**          On entry,
**          *pp          points to first character to be interpreted, terminated by
**                      non 0:9 character.
**          *pstatus      points to status already valid
**          maxvalue      gives the largest allowable value.
**
**          On exit,
**          *pp          points to first unread character
**          *pstatus      points to status updated iff bad
*/
#ifdef __STDC__

```

```

extern unsigned int HTCardinal(int *pstatus,
                                char      **pp,
                                unsigned int  max_value);
#else
extern unsigned int HTCardinal();
#endif

/*      Parse an internet node address and port
**      -----
**
** On entry,
**      str      points to a string with a node name or number,
**                with optional trailing colon and port number.
**      sin      points to the binary internet address field.
**
** On exit,
**      *sin      is filled in. If no port is specified in str, that
**                field is left unchanged in *sin.
*/
#ifdef __STDC__
extern int HTParseInet(struct sockaddr_in* sin, const char *str);
#else
extern int HTParseInet();
#endif

/*      Get Name of This Machine
**      -----
**
**
*/
#ifdef __STDC__
extern const char * HTHostName(void);
#else
extern char * HTHostName();
#endif

```

```

/*      Macros for general use                                     HTUtils.h
*/
/*      Allocate a new copy of a string:
*/
#define StrAllocCopy(new,old) \
    if (new) free(new); (new) = (char *)malloc(strlen(old)+1); strcpy((new),(old))
/* extern void *malloc(size_t size); */

/*      Debug message control.
*/
#ifdef DEBUG
#define TRACE (WWW_TraceFlag)
#define PROGRESS(str) printf(str)
extern int WWW_TraceFlag;
#else
#define TRACE 0
#define PROGRESS(str) /* nothing for now */
#endif
#define CTRACE if(TRACE)fprintf
#define tfp stdout

/*      Standard C library for malloc() etc
*/
#ifdef vax
#ifdef unix
#define ultrix /* Assume vax+unix=ultrix */
#endif
#endif

#ifdef VMS
#ifdef ultrix
#ifdef NeXT
#include <libc.h> /* NeXT */
#endif
#include <stdlib.h> /* ANSI */
#else
#include <malloc.h> /* ultrix */
#include <memory.h>
#endif
#else /* VMS */
#include <stdio.h>
#include <ctype.h>
#endif

#define PUBLIC /* Accessible outside this module */
#define PRIVATE static /* Accessible only within this module */

#ifdef __STDC__
#define CONST const /* "const" only exists in STDC */
#else
#define CONST
#endif

/* Note: GOOD and BAD are already defined (differently) on RS6000 aix */
/* #define GOOD(status) ((status)&1) VMS style status: test bit 0 */
/* #define BAD(status) (!GOOD(status)) Bit 0 set if OK, otherwise clear */

#ifdef BOOLEAN_DEFINED
typedef char BOOLEAN; /* Logical value */

```

```
#ifndef TRUE
#define TRUE      (BOOLEAN)1
#define FALSE    (BOOLEAN)0
#endif
#define BOOLEAN_DEFINED
#endif

#ifndef BOOL
#define BOOL BOOLEAN
#endif
#ifndef YES
#define YES (BOOLEAN)1
#define NO (BOOLEAN)0
#endif

#define TCP_PORT 2784          /* Arbitrary value -- should be allocated */
/*      Is character c white space? */

#ifndef NOT_ASCII
#define WHITE(c) (((unsigned char)(c))<=' ')    /* Assumes ASCII but faster */
#else
#define WHITE(c) ( ((c)==' ') || ((c)=='\t') || ((c)=='\n') || ((c)=='\r') )
#endif
```



DMSLIO201W The following names are undefined:  
IBMBLIIA

```
/* THIS EXEC FILE COMPILES AND LINKS A C PROGRAM */  
/* arg name */  
"GLOBAL TXTLIB EDCBASE IBMLIB CMSLIB"  
"CMOD HTDAEMON FINDGATE "  
/* "EXEC TCPLOAD" name "1400CERN C" */  
/*MOD" name */
```

```

/* Txtlib's get redefined somehow by the CC exec so call CC */
/* then reglobal the necessary txtlibs. chee laug91 */

address COMMAND

preflibs = 'NAPL HANDYPAK MK2 M2LIB BTM FORTSLAC VSF2FORT'
extralib = 'IBMLIB EDCBASE'
cdisk     = 0

parse upper arg cname .
if cname = '' | cname = '?' then call ERR 1

/* is C370 disk up? */
'EXEC CMSSTACK LIFO QUERY DISK'
do queued()
  parse upper pull label vaddr mode rwstat .
  if label = 'IBM-C' then cdisk = 1
end
if cdisk = 0 then 'EXEC GIME C370'
'EXEC CC 'cname
if rc ^= 0 then call ERR 2
'GLOBAL TXTLIB EDCBASE IBMLIB'
'GLOBAL LOADLIB EDCLINK'
'EXEC CPLINK 'cname
if rc ^= 0 then call ERR 3
'EXEC CMOD' cname
if rc ^= 0 then call ERR 4
'GLOBAL TXTLIB 'preflibs extralib

exit
/* ----- EOProgram ----- */

ERR:
  parse upper arg errno

  select
    when errno = 1 then do
      'EXEC HELP CC'
    end
    when errno = 2 then do
      say 'Your C file failed to compile'
    end
    when errno = 3 then do
      say 'CPLINK failed '
    end
    when errno = 4 then do
      say 'CMOD failed'
    end
    otherwise nop
  end /* of select */
exit

```

```

/* */
ADDRESS command /* PAD 3 before each PIPE STACK is a "fix" for the */
arg iinnpp /* problem with ?? being taken as EOF by IBM C */
Say ' NICFOUN1 Start->'iinnpp
parse var iinnpp fid '('dispmode'/'glued'/'versions')'
versions=translate(versions,' ','+')
dispmode=translate(dispmode,' ','+')
Queue '<SEEINDEX HREF=/FIND>'
If fid='' Then do; queue 'No input whatsoever'; call get_out; end
parse var fid group '.'diskname'.'ft'.'fn '
Say ' mode='dispmode 'glued='glued' versions='versions
SELECT /*
  WHEN datatype(dispmode,'X') THEN DO
    CALL GET_MODE group'.'diskname' 0;m=result
    queue '<PLAINTEXT>'
    parse var dispmode _1 _5 _2 _7
    _1=x2d(_1)-1; _2=x2d(_2)
    'PIPE < 'fn ft m_ ' | drop '_1' | take '_2' | PAD 3 | STACK'
  END /* dispmode is a hexadecimal number --> linenumbers='X' */
  WHEN dispmode='X' THEN DO
    Call GET_MODE group'.'diskname' 0;m=result
    If glued='A' Then do
      pft='PRO:'||substr(ft,5)
      CALL GET_MODE group'.P_'diskname' 0;m_p=result
    End; Else do;m_p=m;pft=ft;end
    'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.cm EXP:/'
    If rc>0 Then,
      'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.CM EXP:/'
    queue '<title>'_.1'</title>'
    queue '<PLAINTEXT>'
    If ft='HELPPROG' Then 'PIPE < 'fn ft m_ ,
      ' | NFIND . | SPEC 12-90 1 | PAD 3 | STACK'
    Else 'PIPE < 'fn ft m_ ' | NFIND . | PAD 3 | STACK'
  END /* of dispmode='X' */
  WHEN dispmode='W' THEN DO
    pft='PRO:'||substr(ft,5)
    CALL GET_MODE group'.P_'diskname' 0;m_p=result
    'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.cm EXP:/'
    If rc>0 Then,
      'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.CM EXP:/'
    queue '<title>'_.1'</title>'
    'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.cm TYP:/'
    If rc>0 Then types=''; else types=_.1
    Select
      When find(versions,'H') >0 Then do
        queue '<PLAINTEXT>'
        Call GET_MODE group'.'diskname' 0;m=result
        'PIPE < 'fn ft m_ ' | PAD 3 | STACK'
      End
      When find(versions,'S') >0 Then do
        parse var types 'SOURCE='sft . .
        If sft^='' Then do
          Call GET_MODE group'.S_'diskname' 0;m=result
          'PIPE < 'fn sft m_ ' | PAD 3 | STACK'
        End
        Else queue 'Something wrong with source'
      End
      Otherwise queue 'No displayable version available'
    End
  END /* of dispmode='W' */

```

```

WHEN dispmode='H' THEN DO
  Call GET_MODE group'.diskname 0;m_=result
  If glued='A' Then do
    pft='PRO:'||substr(ft,5)
    CALL GET_MODE group'.P_.diskname 0;m_p=result
  End; Else do;m_p=m_;pft=ft;end
'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.cm EXP:/'
If rc>0 Then,
  'EXECIO * DISKR 'fn pft m_p' (STEM _ . MAR 9 * FIND /.CM EXP:/'
  queue '<title>'_.1'</title>'
  queue '<PLAINTEXT>'
  If ft='HELPPROG' Then 'PIPE < 'fn ft m_,
    ' | NFIND . | SPEC 12-90 1 | PAD 3 | STACK'
  Else 'PIPE < 'fn ft m_ | NFIND . | PAD 3 | STACK'
END /* of dispmode='H' */
OTHERWISE queue 'Something is wrong, tell BERND@CERNVM'
END /*
/* 'PIPE Stack | > bla bla a | console' */
CALL GET_OUT
RETURN queued()
/*****
GET_MODE: procedure; arg disk flag
'GLOBALV SELECT :XFIND_0 GET ACC_DISKS '
  parse var acc_disks acc_disks ',' acc_links ',' acc_modes
  nn_n=find(acc_disks,disk)
  if nn_n>0 Then RETURN subword(acc_modes,nn_n,1)
'GLOBALV SELECT :XFIND_1 GET 'disk
  parse value value(disk) with id addr uaddr umode rpw .
  if id='' then do
    Queue 'The disk 'disk' is not defined'
    Call Get_out
  end
  If length(umode)=1 Then flag=1 /* disk accessed for all modes */
  If flag & umode ^= '.' & umode ^= '' then RETURN umode
  else do
    l_=qdisk('?', 'ADDRESS')
    'EXECIO 1 CP (SKIP STRING LINK TO 'id addr 'AS' l_ 'RR' rpw
    If rc>2 Then Do
      Queue 'Linking problem with disk 'disk': TELL BERND@CERNVM'
      Call Get_out
    End
    zz=typemode('HT');m_=QDISK('?', 'MODE', '-Z');'ACCESS 'l_ m_;zz=typemode(zz)
    If rc>0 Then Do
      Queue 'Accessing problem with disk 'disk': TELL BERND@CERNVM'
      Call Get_out
    End
    acc_disks=acc_disks' 'disk
    acc_links=acc_links' 'l_
    acc_modes=acc_modes' 'm_
    'GLOBALV SELECT :XFIND_0 SETL ACC_DISKS 'acc_disks','acc_links','acc_modes
  end
RETURN m_
/*-----*/
GET_OUT:
'GLOBALV SELECT :XFIND_0 GET ACC_DISKS '
  parse var acc_disks acc_disks ',' acc_links ',' acc_modes
'SET CMSTYPE HT'
do k=1 to words(acc_links)
  'RELEASE 'WORD(acc_modes,k)
  'EXECIO 1 CP (SKIP STRING DETACH 'WORD(acc_links,k)

```

```
end
'SET CMSTYPE RT'
'GLOBALV SELECT :XFIND_0 PURGE'
Say '    NICFOUN1 End -> stacksize='queued()
EXIT queued()
```

```

-compile
htdaemon c
httpd c
findgate c

-CC
include ebdlib
cc name "(def ....)"

-header files
HTUtils.h
tcp.h
HTTCP.h

-cw
gime watchnew
cw fn.c (prm debug t prm vm t

-tcp/ip
gime tcpappl
files: manifest h

-c370
gime c370
cc fn
help file: cc helpcms
cc fn (xref list
cc fn (langlvl (ansi)

-duplication
string h          comment out strncpy
edcbase txtlib    no different from IBM-C's version

-error with HTDaemon c
bsdtypes h        (time_t was commented out in bsdtypes.h, put it in)
strncpy           comment out strncpy from string.h
logfile           change logfile to logfiles in HTDaemon.c
                  real fix: change LogFile to logfile

-error with HTTCP c
sin_addr          HTDaemon (structure sockaddr_in defined by in.h by tcp.h
fix               cc fn (langlvl (ansi) in cc2_exec
                  real fix: find newer version, WWW/Imple../HTTCP.c
port/index        fix: define index in string.h
                  real fix: use strchr() instead of index

-vm tools
disklist          who has what
qdiskid           sho user addr
q txtlib          query current global txtlib
txtlib map fn     generate map for a txtlib

```

```
/* REXX please      - Run Daemon */
address command
Say 'Access the disks for TCP/IP '
'EXEC GIME MAINT  5E5          (MODE -P'
'EXEC GIME TCPMNT 2B0 * READIT (MODE -P' /* TCP/IP source      */
'EXEC GIME TCPMNT 410 * DACUR  (MODE -P' /* TCP/IP base        */
'EXEC GIME TCPMNT 412 * DACUR  (MODE -P' /* TCP/IP text        */
'EXEC GIME TCPMNT 441 * DACUR  (MODE -P' /* TCP/IP last updates fixes */

Say 'Indicate to CMS which libraries to search'

'GLOBAL TXTLIB EDCBASE IBMLIB CMSLIB'

Say 'Access the disk with all the indices of XFIND'

'EXEC DROP Z'
'EXEC GIME TESTSERV 201 Z'

Say 'Start the DAEMON'

'HTDAEMON -v -a *:8000 -l findlog'
```



```
/**/  
'EXEC GLOBADD LOADLIB EDCLINK'  
/* 'htdaemon -v -a *:2784' */  
'htdaemon -v -a *:2784'
```

```
/* SET UP TCP ACCESS */  
/* "GIME TCPMNT 582" tyh */  
"GIME TCPAPPL "  
"GLOBAL TXTLIB IBMLIB CMSLIB EDCBASE COMMTXT VSPASCAL AMPLANG"
```

---

RECOVER

---

Searching ...

\*\*\* Note: SPICELL is not now a valid VM userid \*\*\*

There are 16 copies of SPICELL 192 on backup tapes.  
They are:

- 1 ) SPICELL 0192 dumped to file 257 of tape RL2748 on 10/03/95 at 19:45:10
- 2 ) SPICELL 0192 dumped to file 214 of tape RL1816 on 07/04/95 at 20:04:19
- 3 ) SPICELL 0192 dumped to file 81 of tape RL1698 on 04/04/95 at 22:01:55
- 4 ) SPICELL 0192 dumped to file 216 of tape RL2993 on 01/03/95 at 22:30:20
- 5 ) SPICELL 0192 dumped to file 136 of tape RL3154 on 10/04/94 at 20:37:49
- 6 ) SPICELL 0192 dumped to file 248 of tape RL0457 on 07/06/94 at 20:51:40
- 7 ) SPICELL 0192 dumped to file 168 of tape RL3326 on 04/06/94 at 03:28:17
- 8 ) SPICELL 0192 dumped to file 185 of tape RL3139 on 01/06/94 at 04:25:52
- 9 ) SPICELL 0192 dumped to file 27 of tape RL2980 on 10/06/93 at 03:06:46
- 10 ) SPICELL 0192 dumped to file 10 of tape RL2741 on 07/07/93 at 04:12:40
- 11 ) SPICELL 0192 dumped to file 136 of tape RL2217 on 04/07/93 at 01:42:14
- 12 ) SPICELL 0192 dumped to file 139 of tape RL2544 on 01/06/93 at 01:32:56
- 13 ) SPICELL 0192 dumped to file 176 of tape RL2060 on 10/07/92 at 09:11:56
- 14 ) SPICELL 0192 dumped to file 170 of tape RL1559 on 07/08/92 at 04:14:00
- 15 ) SPICELL 0192 dumped to file 30 of tape RL1798 on 04/08/92 at 02:39:53
- 16 ) SPICELL 0192 dumped to file 51 of tape RL1414 on 01/08/92 at 01:02:19

Which one of the above do you wish to restore?  
( 1 - 16 , <CR>=none )

# 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 HEP Preprint database search

Use standard SPIRES search terms such as...

find author Perl, M

find title tau and date 1980

## STORES: Stores Online Catalog Search Facility

Use the STORES command to search the Online Stores Catalog for catalog numbers, descriptions, prices, units of issue, and quantity balances (SLAC EXEC). This command does not replace existing ordering procedures.

## Syntax:

```

+-----+
| [function] value |
| Functions:       |
| ALLDes  allows any search word(s) |
| ----- |
| FAMDes  requires Family Description search word(s) |
| ITEMDes requires Item Description search word(s) |
| ALLNum  requires Catalog Identifier number |
| FAMNum  requires Catalog Identifier number |
| ITEMNum requires Catalog Identifier number |
| SPCode  requires Spare Parts Code |
+-----+

```

## PARAM:

function determines what portion of the Catalog will be searched (family, stock item or both), and how the Catalog will be searched (by Description or Catalog Identifier number). The following are valid functions:

- ALLDes displays both the family description and stock item catalog numbers that match the description search word(s) given in "value." Unit of issue, issue price, and balance on hand, are included for stock items.  
EXAMPLE: ALLDES OIL CUTTING
- FAMDes displays all family catalog numbers and their descriptions that match the family description search word(s) given in "value."  
This function provides a display similar in content to the printed Stores Catalog index.  
EXAMPLE: FAMDES PIPE
- ITEMDes displays all stock item catalog numbers that match the item description search word(s) given in "value." The output also includes unit of issue, issue price, and balance on hand.  
EXAMPLE: ITEMDES PENCIL BLACK | PENCIL BLK
- ALLNum displays both family description and stock item catalog numbers that match the catalog identifier number given in "value." Unit of issue, issue price, and balance on hand, are included for stock items.  
EXAMPLE: ALLNUM 68
- FAMNum displays all family catalog numbers and their descriptions that match the catalog identifier number given in "value."  
EXAMPLE: FAMNUM 55
- ITEMNum displays all stock item numbers that match the catalog identifier number given in "value." The output also includes unit of issue, issue price, and balance on hand.

EXAMPLE: ITEMNUM 684

SPCode displays both family description and stock item catalog numbers that match the spare parts code given in "value." Unit of issue, issue price, and balance on hand, are included for stock items.

EXAMPLE: SPCODE A099

value is the search term and may contain a catalog description search word(s), optionally combined by search qualifiers, a catalog identifier number, or a spare parts code, depending on which function is specified.

SEARCH WORD(s): (For ALLDes, FAMDes, and ITEMDes Functions)  
-----

Search words are words contained in either the family description or stock item description, such as PENCIL BLACK MECH. They must be separated by blank spaces and may be combined with search qualifiers.

See Note 2 for important considerations in utilizing the Stores Online Catalog.

Search qualifiers are used to limit or expand a search. A blank space between two search words represents a logical AND, for inclusion purposes. The most useful qualifiers are as follows:

.fo off

| Search<br>Qualifier | Abbrev-<br>iation | Example of Value                                                                                              |
|---------------------|-------------------|---------------------------------------------------------------------------------------------------------------|
| -----               | -----             | -----                                                                                                         |
| AND NOT             | &^                | PENCIL BLACK &^ PENCIL MECH                                                                                   |
| OR                  |                   | PENCIL BLACK   PENCIL BLUE                                                                                    |
| STRING              |                   | STRING OLD would find all descriptions<br>with words containing the string<br>OLD, such as HOLD, HOLDER, etc. |

Truncated searches may be accomplished by suffixing a star '\*' to search word(s). In the following example, all words beginning with PEN BL and ME would be found.

EXAMPLE: PEN\* BL\* ME\*

Also, compound searches can be done.

EXAMPLE: PENCIL RED | PENCIL BLUE &^ PENCIL MECH

See Note 4 for further information concerning search qualifiers.

CATALOG IDENTIFIER NUMBER:  
-----

For ALLNum and FAMNum Functions:

A catalog number contains either 10 characters (general stores, metal stores) or 14 characters (spare parts). See Note 1, below.

A catalog identifier number is the stem of a catalog number, from 2 to 8 digits which may represent:

GROUP (2 digits), such as 55, or  
CLASS (5 digits), such as 55200, or

FAMILY (8 digits), such as 55200600.

Group 59 is too large a class to display and may therefore not be specified as a catalog identifier number.

Three or more digits may also be entered to further slice groupings, such as 553, or 552006.

Catalog Identifier Numbers may be entered with or without dashes or blanks separating Group, Class, Family, etc., such as 55-300-020, 55 300 020, 55300020.

For ITEMNum Function:

In addition to the above, a complete catalog number, up to 14 digits, may be given, such as 5323000105, or 5930120001A002.

SPARE PARTS CODE:

The Spare Parts Code is an owner group identification code for spare parts maintained by SLAC Stores. This code may be used only with the SPCode function, and consists of 4 characters, such as A048, A099. Optionally, the first character, "A" may be omitted.

NOTES:

Note 1: GENERAL DESCRIPTION OF THE STORES CATALOG

The Stores Catalog contains descriptions of over 9000 stock items, including general stores items, metal stores items, and spare parts. All of these items are arranged or subdivided by group, class, family, and item, as follows:

| 55-300-020-06 LUMBER, FIRE-RETARDANT, CONST.GRADE S4S, 2X4 CONST.FIR |  |  |                                                 |
|----------------------------------------------------------------------|--|--|-------------------------------------------------|
| Description                                                          |  |  |                                                 |
|                                                                      |  |  | ITEM: 2X4 CONST.FIR, FIRE RETARDANT             |
|                                                                      |  |  | FAMILY: LUMBER, FIRE-RETARDANT, CONST.GRADE S4S |
|                                                                      |  |  | CLASS: [Fire Retardant Lumber and Plywood]      |
|                                                                      |  |  | GROUP: [Lumber and Building Materials]          |

Thus, in the example above, the catalog group would be 55, the catalog class would be 55-300, the catalog family would be 55-300-020, and the catalog item or catalog stock number would be 55-300-020-06.

For spare parts, a 4 character suffix is included for both family and catalog items, such as 31-300-001-08A099.

Searchable descriptions exist at the FAMILY and ITEM levels. Notice from the above example that Lumber appears in the FAMILY description but not in the ITEM description, and that 2X4 and Fir appear only in the ITEM description and not the FAMILY description. Using ALLDes, FAMDes, or ITEMDes you can search both descriptions, or only family descriptions, or only item descriptions.



Once you know the group, class, or family identifier numbers, you can then use FAMNum to display all family descriptions within a class or group. Use ITEMNum to display all items within a family or class. Or, you can use ALLNum to display both family descriptions and items within a family or class.

Note from the above that using more than two specific words in FAMDes may prove to be misleading because most family descriptions are general rather than specific. Using ALLDes or ITEMDes (rather than FAMDes) will yield more satisfactory results for very specific word searches, such as ALLDES PENCIL BLACK MECH THIN.

It is important to be aware of the fact that description words and catalog identifier numbers cannot be mixed in any of the Stores functions.

In using search word(s) it is important to note that for most stock items, the descriptive word(s) are singular rather than plural. Searching on PENS or PENCILS will return a message that no descriptions were found. Searching on PEN or PENCIL would return many descriptions. Searching on COLORS, however, would return several descriptions, mostly those containing the word ASSORTED. See Note 2 for significant considerations in using the Stores Online Catalog.

Occasionally during FAMDes or FAMNum displays you may notice two identical family identifier numbers with similar or identical descriptions. This is due to spare parts family identifiers additionally containing a 5 character spare parts owner code, which is not displayed during FAMDes or FAMNum displays. Executing a ALLDes or ALLNum display for the same search term will show you both numbers. For the sake of displaying the maximum length of description possible in the FAMDes and FAMNum displays, the '00' suffix (which would otherwise be Item above if it were not a family description) as well as any spare parts code, has been dropped. In the ALLDes and ALLNum displays a non spare parts family description also has the '00' suffix dropped to further distinguish family descriptions from item descriptions, but spare parts family description identifier numbers are completely displayed.

To see both family and item descriptions for a particular spare parts code, use the SPCode function, such as STORES SPC A099.

Suggestions and comments concerning the content of the Stores catalog may be directed to the following individuals, in the order given: Lillie Copeland, X4253; Thomas Butler, X3759; Bob Ratko, X4107; Jerry Belk, X2484.

#### Note 4: SEARCH QUALIFIERS

Stores search qualifiers are relational operators identical to those used in the SPIRES database language for searching indexes. With the exception of STRING, PREFIX, and SUFFIX, most may be of little use for searching the Stores Catalog description field because of the way in which the descriptions are indexed. All descriptions are broken into words at every occurrence of (.,/:- '). Also, no integer values appear in any description, only string or character values. Thus, equality, inequality, word, with, and having operators may be in many instances of little or no value. Because of the composition of the Stores

Function statement, no parentheses are allowed within Value. For more information concerning SPIRES index searching, see Sections B.3.2.3 and B.3.3.1 of the SPIRES Searching and Updating Manual.

EXAMPLES:

1. For many items, the default function ALLDes will suffice to find your goal. To find 1/2" magic mending tape, for instance,  
Enter: MAGIC MENDING TAPE  
This would show you that 2 sizes are available, including your goal.
2. However, due to the way family and item descriptions are frequently constructed, it may take several commands to find your goal. Suppose you were interested in finding out the availability of aluminum electrolytic capacitors with WVDC of 15 rated at 21000 MFD. One satisfactory approach would be to do the following:  
Enter: STORES CAPACITOR ALUMINUM ELECTROLYTIC  
This reveals that there are 7 families. To save the time it would take to look through all of those families and potentially pick up all sorts of non-interest items, one might instead try:  
Enter: WVDC 15 21000 MFD  
This yields one item which may or may not be a capacitor of aluminum construction within the electrolytic category, so, to check that possibility we  
Enter: ALLNum 59312909  
which verifies that the previously displayed item was, in fact, a capacitor aluminum electrolytic WVDC 15 2100 MFD.

# SLAC STORES Catalog and item listing

Find

Enter an item or partial description

Help

Help with STORES

---

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

---

Search the SLAC Stores Catalog.

Enter an item or portion of item description

pipes

paper

<END>

```

                                #pragma nomargins nosequence
#ifndef __string
    #define __string 1

/*****
 * <string.H> header file
 *
 * IBM C/370 Library
 *
 * Program Number: 5688-039
 * Version: 1.0
 * Release: 2.0
 * Modification: 0.0
 *
 * Restricted Materials of IBM
 *
 * Copyright:
 * International Business Machines Corporation 1988, 1989
 *****/

#ifndef __size_t
    typedef unsigned int size_t;
    #define __size_t 1
#endif
#ifndef NULL
    #define NULL ((void *)0)
#endif

void * memchr (const void *, int, size_t);
#define memcpy(x,y,z) __memcpy(x,y,z)
#pragma linkage(__memcpy,builtin)
void * (__memcpy) (void *, const void *, size_t);
#define memcmp(x,y,z) __memcmp(x,y,z)
#pragma linkage(__memcmp,builtin)
int (__memcmp) (const void *, const void *, size_t);
#define memset(x,y,z) __memset(x,y,z)
#pragma linkage(__memset,builtin)
void * (__memset) (void *, int, size_t);
void * (memcpy) (void *, const void *, size_t);
int (memcmp) (const void *, const void *, size_t);
void * (memset) (void *, int, size_t);
void * memmove (void *, const void *, size_t);
char * strchr (const char *, int);
int strcmp (const char *, const char *);
int strcoll (const char *, const char *);
#define strcpy(x,y) __strcpy(x,y)
#pragma linkage(__strcpy,builtin)
char * (__strcpy) (char *, const char *);
char * (strcpy) (char *, const char *);
#define strcat(x,y) __strcat(x,y)
#pragma linkage(__strcat,builtin)
char * (__strcat) (char *, const char *);
char * (strcat) (char *, const char *);
/*char * (strncpy) (char *, const char *, size_t); terryh*/
size_t strcspn (const char *, const char *);
char * strerror (int);
#define strlen(x) __strlen(x)
#pragma linkage(__strlen,builtin)
size_t (__strlen) (const char *);
size_t (strlen) (const char *);

```

```
#define strcmp(x,y) __strcmp(x,y)
#pragma linkage(__strcmp,builtin)
int (__strcmp) (const char *, const char *);
int  (strcmp) (const char *, const char *);
char * strncat (char *, const char *, size_t);
int  strncmp (const char *, const char *,
              size_t);
char * strpbrk (const char *, const char *);
char * strrchr (const char *, int);
size_t strspn (const char *, const char *);
char * strstr (const char *, const char *);
char * strtok (char *, const char *);
size_t strxfrm (char *, const char *, size_t);
/* extern char *index();   * terryh */
#endif
```

```

/*      System-system differences for TCP include files and macros      tcp.h
**      =====
**
**      This file includes for each system, the files necessary for
**      network and file I/O
**
**      History:
**      22 Feb 91      Written (TBL) as part of the WWW project.
*/

#define NETCLOSE close      /* Routine to close a TCP-IP socket      */
#define NETREAD  read      /* Routine to read from a TCP-IP socket */
#define NETWRITE write      /* Routine to write to a TCP-IP socket */

/*      On the NeXT, there's a little package of include files.
*/
#ifdef NeXT
#include <libc.h>      /* NeXT has all this packaged up */
#define ntohs(x) (x)
#define htons(x) (x)
#include <sys/errno.h>      /* Get ECONNRESET etc */
#define SELECT      /* Is supported ok */
#define INCLUDES_DONE

#else
      /* Not NeXT */
#include <stdio.h>

/*      MVS is compiled as for VM. MVS has no unix-style I/O
**      The command line compile options seem to come across in
**      lower case.
**
**      See aslo lots of VM stuff lower down.
*/
#ifdef mvs
#define MVS
#endif

#ifdef MVS
#define VM
#endif

/*      VM doesn't have a built-in predefined token, so we cheat: */
#ifdef __STDIO__
#define VM
#else
#include <string.h>      /* For bzero etc - not NeXT or VM */
#endif
#define SELECT      /* Handle >1 channel if we can. */
#define      /* Not NeXT */

/*      Under VMS, there are many versions of TCP-IP. Define one if you
**      do not use Digital's UCX product:
**
**      UCX      DEC's "Ultrix connection" (default)
**      WIN_TCP  From Wollongong, now GEC software.
**      MULTINET From SRI, now from TGV Inv.
**
**      The second two do not interfere with the unix i/o library, and so they

```

```

**      need special calls to read, write and close sockets.  In these cases the
**      socket number is a VMS channel number, so we make the HORRIBLE
**      assumption that a channel number will be greater than 10 but a
**      unix file descriptor less than 10.
*/
#ifdef vms
#ifdef WIN_TCP
#undef NETREAD
#undef NETWRITE
#undef NETCLOSE
#define NETREAD(s,b,l) ((s)>10 ? netread((s),(b),(l)) : read((s),(b),(l)))
#define NETWRITE(s,b,l) ((s)>10 ? netwrite((s),(b),(l)) : write((s),(b),(l)))
#define NETCLOSE(s)      ((s)>10 ? netclose(s) : close(s))
#endif

#ifdef MULTINET
#undef NETCLOSE
#undef NETREAD
#undef NETWRITE
#define NETREAD(s,b,l) ((s)>10 ? socket_read((s),(b),(l)) : read((s),(b),(l)))
#define NETWRITE(s,b,l) ((s)>10 ? socket_write((s),(b),(l)) : \
                          write((s),(b),(l)))
#define NETCLOSE(s)      ((s)>10 ? socket_close(s) : close(s))
#endif

/*      Certainly this works for UCX:   @@@
*/
#include types
#include errno
#include time
#include string
#include stdio
#include file
#include unixio

#define INCLUDES_DONE

#include socket
#include in
#include inet
#include netdb
#define TCP_INCLUDES_DONE

#endif /* vms */

/*      IBM VM/CMS or MVS
**      -----
**
**      Note:   All files must have lines <= 80 characters
**
**      Under VM, compile with "DEF=VM"
**
**      Under MVS, compile with "NOMAR DEF(MVS)" to get rid of 72 char margin
**      System include files TCPIP and COMMMAC need line number removal(!)
*/

#ifdef VM
/* or MVS -- see above. */
#define NOT_ASCII /* char type is not ASCII */
#define NO_UNIX_IO /* Unix I/O routines are not supported */

```



```

#define SHORT_NAMES /* 8 character uniqueness for globals */
#include <manifest.h>
#include <bsdtypes.h>
#include <stdefs.h>
#include <socket.h>
#include <in.h>
#include <netdb.h>
#include <errno.h> /* independent */
extern char asciitoebcdic[], ebcdictoascii[];
#define TOASCII(c) (c=='\n' ? 10 : ebcdictoascii[c])
#define FROMASCII(c) (c== 10 ? '\n' : asciitoebcdic[c])
#include <bsdtime.h>
#include <string.h>
#define INCLUDES_DONE
#define TCP_INCLUDES_DONE
#endif

/* Regular BSD unix versions: */

#ifndef INCLUDES_DONE
#include <sys/types.h>
/* #include <streams/streams.h> not ultrix */
#include <string.h>
#include <stdio.h>
#include <errno.h> /* independent */
#include <sys/time.h> /* independent */
#include <sys/stat.h>
#include <sys/param.h>
#include <sys/file.h> /* For open() etc */
#endif /* Normal includes */

/* Default include files for TCP
*/
#ifndef TCP_INCLUDES_DONE
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h> /* Must be after netinet/in.h */
#include <netdb.h>
#endif /* TCP includes */

/* Default macros for manipulating masks for select()
*/
#ifndef FD_SET
typedef unsigned int fd_set;
#define FD_SET(fd,pmask) (*pmask) |= (1<<(fd))
#define FD_CLR(fd,pmask) (*pmask) &= ~(1<<(fd))
#define FD_ZERO(pmask) (*pmask)=0
#define FD_ISSET(fd,pmask) (*pmask) & (1<<(fd))
#endif

/* Default macros for converting characters
**
*/
#ifndef TOASCII
#define TOASCII(c) (c)
#define FROMASCII(c) (c)
#endif

```

```

*****
*
* Start execution of TYH239 for TERRYH, class S.
* Execution begins at 18:40:52 on 14 Nov 1991 in BATCH07A at SLACVM.
* Submitted at      18:40:43 on 14 Nov 1991 for TERRYH at SLACVM.
* Running CURCMS, mode 370, storage = 4096K, time limit = 2 minutes.
* Max print = 10K lines, max punch = 100K cards.
*
*****

```

-----> Execute "R\$COV193"

\*\* RECOVER TERRYH 193 to TDISK \*\*

DASD 0555 DEFINED

TAPE 0F13 ATTACHED TO BATCH07A 0181

TAPE 0181 ON DEV 0F13 R/W

MNTREQ100I 18:40:53 Mounting volume RL0357 on device 181, SL NoRing

MNTVER101I 18:41:18 Volume RL0357 on device 181 has been verified

Rewind complete

RESTORING TYH193

DATA DUMPED 10/31/91 AT 04.35.56 GMT FROM TYH193 RESTORED TO SCRATCH

INPUT CYLINDER EXTENTS      OUTPUT CYLINDER EXTENTS

| START | STOP | START | STOP |
|-------|------|-------|------|
| 0000  | 0000 | 0000  | 0000 |

END OF RESTORE

END OF JOB

18:42:59 \* MSG FROM VMSETUP: VMSCAN001I VMSETUP REQUEST FOR TERRYH TYH239 WILL BE  
 TAPE 0181 DETACHED BY VMSETUP, TAPE VOLUME(S) UNLOADED  
 DMSCAR002E FILE(S) NOT FOUND.

| FILENAME | FILETYPE | FM | FORMAT | LRECL | RECS | BLOCKS | DATE     | TIME     | LABEL  |
|----------|----------|----|--------|-------|------|--------|----------|----------|--------|
| A        | C        | Z1 | F      | 80    | 5    | 1      | 10/16/91 | 18:13:27 | TYH193 |
| A        | ERRS     | Z1 | V      | 49    | 1    | 1      | 10/16/91 | 18:15:35 | TYH193 |
| A        | TEXT     | Z1 | F      | 80    | 5    | 1      | 10/16/91 | 18:15:35 | TYH193 |
| BSDTYPES | H        | Z1 | V      | 70    | 120  | 1      | 10/15/91 | 18:01:30 | TYH193 |
| CC_ALL   | EXEC     | Z1 | V      | 81    | 13   | 1      | 10/14/91 | 15:29:29 | TYH193 |
| CC2      | EXEC     | Z1 | V      | 58    | 8    | 1      | 10/30/91 | 14:18:05 | TYH193 |
| CMOD     | EXEC     | Z2 | V      | 62    | 201  | 2      | 10/30/91 | 15:38:28 | TYH193 |
| CMS      | EXEC     | Z1 | F      | 80    | 13   | 1      | 10/19/91 | 10:50:58 | TYH193 |
| CMS      | PRESERVE | Z1 | V      | 65    | 30   | 1      | 10/30/91 | 16:15:36 | TYH193 |
| CPOBJ    | RMAP     | Z1 | F      | 80    | 3    | 1      | 10/16/91 | 18:46:59 | TYH193 |
| DLOAD    | EXEC     | Z1 | V      | 62    | 6    | 1      | 10/30/91 | 15:35:54 | TYH193 |
| EDCXV    | C        | Z1 | F      | 80    | 5    | 1      | 10/16/91 | 18:08:43 | TYH193 |
| FGET     | EXEC     | Z2 | V      | 78    | 129  | 2      | 9/26/91  | 11:30:24 | TYH193 |
| FINDGATE | C        | Z1 | V      | 78    | 245  | 2      | 9/26/91  | 9:58:03  | TYH193 |
| FINDGATE | C2       | Z1 | V      | 78    | 245  | 2      | 10/14/91 | 15:28:41 | TYH193 |
| FINDGATE | TEXT     | Z1 | F      | 80    | 113  | 3      | 10/30/91 | 14:18:46 | TYH193 |
| FSEARCH  | EXEC     | Z1 | V      | 76    | 120  | 2      | 9/26/91  | 10:43:32 | TYH193 |
| HTDAEMON | C        | Z1 | V      | 85    | 639  | 5      | 10/15/91 | 18:10:19 | TYH193 |
| HTDAEMON | C2       | Z1 | V      | 85    | 639  | 5      | 10/15/91 | 15:45:38 | TYH193 |
| HTDAEMON | MODULE   | Z1 | V      | 65535 | 5    | 32     | 10/30/91 | 16:15:39 | TYH193 |
| HTDAEMON | TEXT     | Z1 | F      | 80    | 183  | 4      | 10/30/91 | 14:18:19 | TYH193 |
| HTTCP    | C        | Z1 | V      | 79    | 282  | 2      | 10/16/91 | 17:04:54 | TYH193 |
| HTTCP    | H        | Z1 | V      | 78    | 94   | 1      | 10/14/91 | 15:47:38 | TYH193 |
| HTTCP    | TEXT     | Z1 | F      | 80    | 77   | 2      | 10/30/91 | 14:18:32 | TYH193 |
| HTUTILS  | H        | Z1 | V      | 79    | 85   | 1      | 10/14/91 | 15:47:21 | TYH193 |
| LOAD     | MAP      | Z1 | F      | 100   | 392  | 10     | 10/30/91 | 15:34:23 | TYH193 |
| MAKE     | EXEC     | Z1 | V      | 51    | 6    | 1      | 9/19/91  | 14:06:07 | TYH193 |
| MYCC     | EXEC     | Z1 | V      | 63    | 51   | 1      | 10/16/91 | 18:28:29 | TYH193 |
| NICFOUN1 | EXEC     | Z2 | V      | 78    | 125  | 2      | 9/24/91  | 11:01:53 | TYH193 |
| PROFILE  | EXEC     | Z1 | V      | 72    | 28   | 1      | 9/26/91  | 10:44:28 | TYH193 |

|        |      |      |    |     |                            |
|--------|------|------|----|-----|----------------------------|
| Q      | Q    | Z1 F | 80 | 52  | 2 10/16/91 17:22:58 TYH193 |
| RUN    | EXEC | Z1 V | 74 | 21  | 1 9/19/91 14:19:57 TYH193  |
| SETUP  | EXEC | Z1 V | 62 | 4   | 1 10/15/91 17:47:15 TYH193 |
| STRING | H    | Z2 F | 80 | 75  | 2 10/16/91 17:07:43 TYH193 |
| TCP    | H    | Z1 V | 91 | 180 | 2 10/14/91 15:47:28 TYH193 |

-----> Batch return code = 0.

-----> System cleanup \$BCLEAN.

```

*****
*
* End execution of TYH239 for TERRYH at 18:42:59 on 14/11/91.
*
* Actual CPU time (mm:ss[.th]):      Virtual = 0:00.37 , Total = 0:00.64
* I/O counts:  SIO=000531 RDR=000000 PRT=000100 PCH=000071
*
* Space used on A-disk at job end:  48K
*
* I/O counts on units still available
* Spool units
* 0009:      87      000C:      0      000D:      2      000E:      0
* 00AE:      0
* Dasd units
* 0190(S):    25      0191(A):    76      019E(Y):    45      0555(Z):    22
* 059E(T):    15      059F(U):     5      05A0(V):    32
*****

```

## UNIX Command Summary with an Extract of Output

Commands used to copy files RECOVERed from CMS Backup to WINTERS 294 (a SPACE TEMPDISK), from that SLACVM minidisk on to UNIX AFS WWW archive space:

```
/afs/slac.stanford.edu/www/archive/1992/SLACVM/spicell/192/rl1559
```

The commands (almost always) and output were cut and pasted from the xterm (or aixterm) window where the work was executed. Text in square brackets ([ ]) is commentary.

```
pwd
```

```
/afs/slac.stanford.edu/www/archive/1992/SLACVM/spicell/192/rl1559
```

```
date
```

```
Wed Jul 22 03:15:11 PDT 1998
```

```
vmnfs refresh winters.294
```

```
[SLACVM.SLAC.STANFORD.EDU]
```

```
Disk WINTERS.294 refreshed.
```

```
cp -p /nfs/slacvm/ascii/winters.294/* .
```

```
762 cassandra /192/rl1559> chmod a-x *
```

```
763 cassandra /192/rl1559> mv readme.rl1559 README
```

```
764 cassandra /192/rl1559> mv spicel92.backup spicell192.backup
```

```
chmod u+w README
```

```
ls -l |grep rw
```

```
-rw-r--r-- 1 winters sf
```

```
10787 Jul 22 03:37 README
```

```
-rw-r--r-- 1 winters sf
```

```
560 Jul 22 03:15 unix-commands
```

```
ls -l winters.filelist
```

```
-r--r--r-- 1 winters sf
```

```
7236 Jul 21 20:33 winters.filelist
```

```
771 cassandra /192/rl1559> ls -l >winters.ls
```

```
ls -l >winters.ls
```

```
772 cassandra /192/rl1559> chmod a-x winters.ls
```

```
773 cassandra /192/rl1559> chmod u-w winters.ls
```

```
774 cassandra /192/rl1559> ls -l winters.ls
```

```
-r--r--r-- 1 winters sf
```

```
4598 Jul 22 03:39 winters.ls
```

```
wc winters.ls
```

```
71 632 4598 winters.ls
```

```
776 cassandra /192/rl1559> wc winters.filelist
```

```
67 871 7236 winters.filelist
```

```
grep -i filelist winters.filelist
```

```
778 cassandra /192/rl1559> grep -i filelist winters.ls
```

```
-r--r--r-- 1 winters sf
```

```
7236 Jul 21 20:33 winters.filelist
```

```
779 cassandra /192/rl1559> grep -i winters.ls winters.ls
```

```
-rw-r--r-- 1 winters sf
```

```
0 Jul 22 03:39 winters.ls
```

```
780 cassandra /192/rl1559> grep -i total winters.ls
```

```
total 820
```

```
781 cassandra /192/rl1559> grep -i unix-commands winters.ls
```

```
-rw-r--r-- 1 winters sf
```

```
560 Jul 22 03:15 unix-commands
```

```
[71 = 67 + winters.filelist + winters.ls + "total" + unix-commands]
```

date

Wed Jul 22 03:43:24 PDT 1998

Dates on unix-commands and README are likely to be newer than the dates for those files in winters.ls.

22 Jul 1998

Joan M. Winters

|           |          |      |       |     |    |          |          |      |
|-----------|----------|------|-------|-----|----|----------|----------|------|
| README    | RL1559   | A1 V | 107   | 162 | 3  | 7/22/98  | 3:31:55  | SPC2 |
| WINTERS   | JCW122   | A1 F | 132   | 244 | 8  | 7/22/98  | 3:18:28  | SPC2 |
| SPICE192  | BACKUP   | A1 V | 75    | 27  | 1  | 7/22/98  | 1:58:34  | SPC2 |
| DEFAULT   | HTML     | A1 V | 75    | 10  | 1  | 3/18/92  | 16:07:42 | SPC2 |
| DEFAULTX  | HTML     | A1 V | 78    | 12  | 1  | 3/18/92  | 16:02:28 | SPC2 |
| FSEARCH   | EXEC     | A1 V | 69    | 63  | 1  | 3/18/92  | 16:01:08 | SPC2 |
| SPIRES    | HTML     | A1 V | 74    | 9   | 1  | 3/10/92  | 10:41:55 | SPC2 |
| FGET      | EXEC     | A2 V | 75    | 27  | 1  | 3/09/92  | 12:38:49 | SPC2 |
| STORES    | HTML     | A1 V | 76    | 10  | 1  | 3/09/92  | 11:36:54 | SPC2 |
| HEP       | HTML     | A1 V | 73    | 9   | 1  | 3/09/92  | 11:36:45 | SPC2 |
| BINLIST   | HTML     | A1 V | 77    | 13  | 1  | 3/09/92  | 11:36:29 | SPC2 |
| BINLIST   | HELP     | A1 V | 53    | 4   | 1  | 3/06/92  | 15:47:52 | SPC2 |
| HEP       | HELP     | A1 V | 71    | 27  | 1  | 3/06/92  | 15:47:24 | SPC2 |
| STORES    | HELP     | A1 F | 80    | 267 | 1  | 3/05/92  | 10:43:26 | SPC2 |
| STORES    | INDEX    | A1 F | 80    | 10  | 6  | 3/04/92  | 15:51:24 | SPC2 |
| BINLIST   | INDEX    | A1 F | 80    | 10  | 1  | 2/27/92  | 14:54:47 | SPC2 |
| FSEARCH   | @EXEC    | A0 V | 65    | 13  | 1  | 2/27/92  | 14:37:35 | SPC2 |
| BINLIST   | @INDEX   | A0 F | 80    | 9   | 1  | 2/27/92  | 14:36:49 | SPC2 |
| BINLIST   | SAVINDE  | A1 F | 80    | 8   | 1  | 2/27/92  | 14:36:37 | SPC2 |
| BINLIST   | @HTML    | A0 V | 73    | 13  | 1  | 2/27/92  | 14:36:14 | SPC2 |
| HEP       | @INDEX   | A0 V | 43    | 12  | 1  | 2/27/92  | 13:59:39 | SPC2 |
| HEP       | @HTML    | A0 V | 74    | 9   | 1  | 2/27/92  | 13:59:30 | SPC2 |
| FSEARCH   | SAVEEXEC | A1 V | 40    | 7   | 1  | 2/27/92  | 13:55:56 | SPC2 |
| HEP       | INDEX    | A1 V | 43    | 12  | 1  | 2/27/92  | 13:26:11 | SPC2 |
| SPIRES    | INDEX    | A1 V | 43    | 12  | 1  | 2/27/92  | 13:26:11 | SPC2 |
| DEFAULT   | @HTML    | A0 V | 81    | 13  | 1  | 12/12/91 | 15:59:13 | SPC2 |
| FGET      | @EXEC    | A0 V | 60    | 16  | 1  | 12/06/91 | 21:15:48 | SPC2 |
| HTDAEMON  | MODULE   | A1 V | 65535 | 5   | 1  | 12/06/91 | 20:45:45 | SPC2 |
| EDCXV     | TEXT     | A1 F | 80    | 9   | 32 | 12/05/91 | 16:03:14 | SPC2 |
| FINDGATE  | TEXT     | A1 F | 80    | 113 | 1  | 12/05/91 | 16:03:06 | SPC2 |
| LOAD      | MAP      | A1 F | 100   | 2   | 3  | 12/05/91 | 16:02:49 | SPC2 |
| TERRYH    | TYH239   | A1 F | 132   | 87  | 1  | 12/05/91 | 15:55:46 | SPC2 |
| FGET      | ORIG     | A2 V | 78    | 132 | 3  | 11/14/91 | 18:43:33 | SPC2 |
| CMS       | PRESERVE | A1 V | 65    | 30  | 2  | 11/06/91 | 17:08:04 | SPC2 |
| FINDGATE  | C        | A1 V | 78    | 245 | 1  | 11/06/91 | 17:06:02 | SPC2 |
| RUNDAEMON | EXEC     | A1 V | 33    | 5   | 2  | 11/06/91 | 17:05:49 | SPC2 |
| FSEARCH   | SAVE     | A1 V | 76    | 123 | 1  | 11/06/91 | 17:03:09 | SPC2 |
| FINDGATE  | SLACVM   | A1 V | 78    | 245 | 2  | 11/06/91 | 14:06:50 | SPC2 |
| FEARCH    | ORIG     | A1 V | 76    | 125 | 2  | 11/06/91 | 13:57:17 | SPC2 |
| SETUP     | EXEC     | A1 V | 62    | 4   | 2  | 11/06/91 | 12:04:44 | SPC2 |
| HTTCP     | TEXT     | A1 F | 80    | 77  | 1  | 11/05/91 | 14:57:21 | SPC2 |
| HTDAEMON  | TEXT     | A1 F | 80    | 183 | 2  | 11/05/91 | 14:38:12 | SPC2 |
| CMOD      | EXEC     | A2 V | 68    | 203 | 4  | 11/05/91 | 14:37:48 | SPC2 |
| FINDGATE  | ORIG     | A1 V | 78    | 245 | 2  | 11/04/91 | 11:35:12 | SPC2 |
| DLOAD     | EXEC     | A1 V | 64    | 4   | 2  | 11/04/91 | 11:30:12 | SPC2 |
| A         | EXEC     | A1 V | 68    | 10  | 1  | 11/01/91 | 15:15:36 | SPC2 |
| CC2       | EXEC     | A1 V | 58    | 8   | 1  | 11/01/91 | 15:13:32 | SPC2 |
| CPOBJ     | RMAP     | A1 F | 80    | 3   | 1  | 10/30/91 | 14:18:05 | SPC2 |
| MYCC      | EXEC     | A1 V | 63    | 51  | 1  | 10/16/91 | 18:46:59 | SPC2 |
| A         | ERRS     | A1 V | 49    | 1   | 1  | 10/16/91 | 18:28:29 | SPC2 |
| A         | TEXT     | A1 F | 80    | 5   | 1  | 10/16/91 | 18:15:35 | SPC2 |
| A         | C        | A1 F | 80    | 5   | 1  | 10/16/91 | 18:15:35 | SPC2 |
| EDCXV     | C        | A1 F | 80    | 5   | 1  | 10/16/91 | 18:13:27 | SPC2 |
| Q         | Q        | A1 F | 80    | 5   | 1  | 10/16/91 | 18:08:43 | SPC2 |
| STRING    | H        | A2 F | 80    | 52  | 2  | 10/16/91 | 17:22:58 | SPC2 |
| HTTCP     | C        | A1 V | 79    | 75  | 2  | 10/16/91 | 17:07:43 | SPC2 |
| HTDAEMON  | C        | A1 V | 85    | 282 | 2  | 10/16/91 | 17:04:54 | SPC2 |
| BSDTYPES  | H        | A1 V | 70    | 639 | 2  | 10/16/91 | 17:04:54 | SPC2 |
| HTDAEMON  | C2       | A1 V | 85    | 120 | 5  | 10/15/91 | 18:10:19 | SPC2 |
| HTTCP     | H        | A1 V | 78    | 639 | 1  | 10/15/91 | 18:01:30 | SPC2 |
|           |          |      |       | 94  | 5  | 10/15/91 | 15:45:38 | SPC2 |
|           |          |      |       |     | 1  | 10/14/91 | 15:47:38 | SPC2 |

|          |      |      |    |     |   |                   |      |
|----------|------|------|----|-----|---|-------------------|------|
| TCP      | H    | A1 V | 91 | 180 | 2 | 10/14/91 15:47:28 | SPC2 |
| HTUTILS  | H    | A1 V | 79 | 85  | 1 | 10/14/91 15:47:21 | SPC2 |
| CC_ALL   | EXEC | A1 V | 81 | 13  | 1 | 10/14/91 15:29:29 | SPC2 |
| FINDGATE | C2   | A1 V | 78 | 245 | 2 | 10/14/91 15:28:41 | SPC2 |
| NICFOUN1 | EXEC | A2 V | 78 | 125 | 2 | 9/24/91 11:01:53  | SPC2 |
| RUN      | EXEC | A1 V | 74 | 21  | 1 | 9/19/91 14:19:57  | SPC2 |
| MAKE     | EXEC | A1 V | 51 | 6   | 1 | 9/19/91 14:06:07  | SPC2 |

```

*****
*
* Start execution of JCW122 for WINTERS, class S.
* Execution begins at 03:12:04 on 22 Jul 1998 in BATCH08A at SLACVM.
* Submitted at      03:11:59 on 22 Jul 1998 for WINTERS at SLACVM.
* Running CURCMS, mode XA, storage = 4096K, time limit = 2 minutes.
* Max print = 10K lines, max punch = 100K cards.
*
*****

```

-----> Execute "R\$COV192"

```

** RECOVER SPICELL 192 to TDISK **
DASD 0555 DEFINED
TAPE 0F13 ATTACHED TO BATCH08A 0181
TAPE 0181 ON DEV 0F13 3490 R/W SUBCH = 000D
MNTREQ100I 03:12:05 Mounting volume RL1559 on device 181, SL NoRing
MNTVER107I 03:13:13 Remounting volume RL1559 on device 181; intervention required
MNTVER101I 03:13:41 Volume RL1559 on device 181 has been verified
Rewind complete
RESTORING WWW
DATA DUMPED 07/08/92 AT 04.13.53 GMT FROM WWW RESTORED TO SCRATCH
INPUT CYLINDER EXTENTS OUTPUT CYLINDER EXTENTS
      START      STOP      START      STOP
      0000      0004      0000      0004
END OF RESTORE
END OF JOB
03:15:06 * MSG FROM VMSETUP: VMSCAN001I VMSETUP REQUEST FOR WINTERS JCW122 WILL BE
TAPE 0181 DETACHED BY VMSETUP
CARD DUMP A C Z1
PUN FILE 0738 SENT TO WINTERS RDR AS 7405 RECS 0003 CPY 001 Y NOHOLD NOKEEP
CARD DUMP A ERRS Z1
PUN FILE 0739 SENT TO WINTERS RDR AS 7406 RECS 0003 CPY 001 Y NOHOLD NOKEEP
CARD DUMP A EXEC Z1
PUN FILE 0740 SENT TO WINTERS RDR AS 7407 RECS 0005 CPY 001 Y NOHOLD NOKEEP
CARD DUMP A TEXT Z1
PUN FILE 0741 SENT TO WINTERS RDR AS 7408 RECS 0005 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST @HTML Z0
PUN FILE 0742 SENT TO WINTERS RDR AS 7409 RECS 0006 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST @INDEX Z0
PUN FILE 0743 SENT TO WINTERS RDR AS 7410 RECS 0004 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST HELP Z1
PUN FILE 0744 SENT TO WINTERS RDR AS 7411 RECS 0004 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST HTML Z1
PUN FILE 0745 SENT TO WINTERS RDR AS 7412 RECS 0006 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST INDEX Z1
PUN FILE 0746 SENT TO WINTERS RDR AS 7413 RECS 0004 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BINLIST SAVINDEX Z1
PUN FILE 0747 SENT TO WINTERS RDR AS 7414 RECS 0004 CPY 001 Y NOHOLD NOKEEP
CARD DUMP BSDTYPES H Z1
PUN FILE 0748 SENT TO WINTERS RDR AS 7415 RECS 0044 CPY 001 Y NOHOLD NOKEEP
CARD DUMP CC_ALL EXEC Z1
PUN FILE 0749 SENT TO WINTERS RDR AS 7416 RECS 0005 CPY 001 Y NOHOLD NOKEEP
CARD DUMP CC2 EXEC Z1
PUN FILE 0750 SENT TO WINTERS RDR AS 7417 RECS 0006 CPY 001 Y NOHOLD NOKEEP
CARD DUMP CMOD EXEC Z2
PUN FILE 0751 SENT TO WINTERS RDR AS 7418 RECS 0057 CPY 001 Y NOHOLD NOKEEP
CARD DUMP CMS PRESERVE Z1
PUN FILE 0752 SENT TO WINTERS RDR AS 7419 RECS 0014 CPY 001 Y NOHOLD NOKEEP
CARD DUMP CPOBJ RMAP Z1

```



|                               |         |        |                    |                     |
|-------------------------------|---------|--------|--------------------|---------------------|
| PUN FILE 0753 SENT TO         | WINTERS | RDR AS | 7420 RECS 0004 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP DEFAULT @HTML Z0    |         |        |                    |                     |
| PUN FILE 0754 SENT TO         | WINTERS | RDR AS | 7421 RECS 0007 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP DEFAULT HTML Z1     |         |        |                    |                     |
| PUN FILE 0755 SENT TO         | WINTERS | RDR AS | 7422 RECS 0007 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP DEFAULTX HTML Z1    |         |        |                    |                     |
| PUN FILE 0756 SENT TO         | WINTERS | RDR AS | 7423 RECS 0008 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP DLOAD EXEC Z1       |         |        |                    |                     |
| PUN FILE 0757 SENT TO         | WINTERS | RDR AS | 7424 RECS 0004 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP EDCXV C Z1          |         |        |                    |                     |
| PUN FILE 0758 SENT TO         | WINTERS | RDR AS | 7425 RECS 0003 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP EDCXV TEXT Z1       |         |        |                    |                     |
| PUN FILE 0759 SENT TO         | WINTERS | RDR AS | 7426 RECS 0007 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FEARCH ORIG Z1      |         |        |                    |                     |
| PUN FILE 0760 SENT TO         | WINTERS | RDR AS | 7427 RECS 0057 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FGET @EXEC Z0       |         |        |                    |                     |
| PUN FILE 0761 SENT TO         | WINTERS | RDR AS | 7428 RECS 0007 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FGET EXEC Z2        |         |        |                    |                     |
| PUN FILE 0762 SENT TO         | WINTERS | RDR AS | 7429 RECS 0011 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FGET ORIG Z2        |         |        |                    |                     |
| PUN FILE 0763 SENT TO         | WINTERS | RDR AS | 7430 RECS 0065 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FINDGATE C Z1       |         |        |                    |                     |
| PUN FILE 0764 SENT TO         | WINTERS | RDR AS | 7431 RECS 0091 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FINDGATE C2 Z1      |         |        |                    |                     |
| PUN FILE 0765 SENT TO         | WINTERS | RDR AS | 7432 RECS 0091 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FINDGATE ORIG Z1    |         |        |                    |                     |
| PUN FILE 0766 SENT TO         | WINTERS | RDR AS | 7433 RECS 0091 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FINDGATE SLACVM Z1  |         |        |                    |                     |
| PUN FILE 0767 SENT TO         | WINTERS | RDR AS | 7434 RECS 0091 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FINDGATE TEXT Z1    |         |        |                    |                     |
| PUN FILE 0768 SENT TO         | WINTERS | RDR AS | 7435 RECS 0100 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FSEARCH @EXEC Z0    |         |        |                    |                     |
| PUN FILE 0769 SENT TO         | WINTERS | RDR AS | 7436 RECS 0007 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FSEARCH EXEC Z1     |         |        |                    |                     |
| PUN FILE 0770 SENT TO         | WINTERS | RDR AS | 7437 RECS 0023 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FSEARCH SAVE Z1     |         |        |                    |                     |
| PUN FILE 0771 SENT TO         | WINTERS | RDR AS | 7438 RECS 0057 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP FSEARCH SAVEEXEC Z1 |         |        |                    |                     |
| PUN FILE 0772 SENT TO         | WINTERS | RDR AS | 7439 RECS 0004 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HEP @HTML Z0        |         |        |                    |                     |
| PUN FILE 0773 SENT TO         | WINTERS | RDR AS | 7440 RECS 0006 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HEP @INDEX Z0       |         |        |                    |                     |
| PUN FILE 0774 SENT TO         | WINTERS | RDR AS | 7441 RECS 0005 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HEP HELP Z1         |         |        |                    |                     |
| PUN FILE 0775 SENT TO         | WINTERS | RDR AS | 7442 RECS 0015 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HEP HTML Z1         |         |        |                    |                     |
| PUN FILE 0776 SENT TO         | WINTERS | RDR AS | 7443 RECS 0006 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HEP INDEX Z1        |         |        |                    |                     |
| PUN FILE 0777 SENT TO         | WINTERS | RDR AS | 7444 RECS 0005 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTDAEMON C Z1       |         |        |                    |                     |
| PUN FILE 0778 SENT TO         | WINTERS | RDR AS | 7445 RECS 0211 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTDAEMON C2 Z1      |         |        |                    |                     |
| PUN FILE 0779 SENT TO         | WINTERS | RDR AS | 7446 RECS 0211 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTDAEMON MODULE Z1  |         |        |                    |                     |
| PUN FILE 0780 SENT TO         | WINTERS | RDR AS | 7447 RECS 1535 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTDAEMON TEXT Z1    |         |        |                    |                     |
| PUN FILE 0781 SENT TO         | WINTERS | RDR AS | 7448 RECS 0139 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTTP C Z1           |         |        |                    |                     |
| PUN FILE 0782 SENT TO         | WINTERS | RDR AS | 7449 RECS 0091 CPY | 001 Y NOHOLD NOKEEP |
| CARD DUMP HTTP H Z1           |         |        |                    |                     |

|                                   |         |        |           |          |       |          |              |
|-----------------------------------|---------|--------|-----------|----------|-------|----------|--------------|
| PUN FILE 0783 SENT TO             | WINTERS | RDR AS | 7450 RECS | 0032 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP HTTP TEXT Z1            |         |        |           |          |       |          |              |
| PUN FILE 0784 SENT TO             | WINTERS | RDR AS | 7451 RECS | 0056 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP HTUTILS H Z1            |         |        |           |          |       |          |              |
| PUN FILE 0785 SENT TO             | WINTERS | RDR AS | 7452 RECS | 0027 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP LOAD MAP Z1             |         |        |           |          |       |          |              |
| PUN FILE 0786 SENT TO             | WINTERS | RDR AS | 7453 RECS | 0003 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP MAKE EXEC Z1            |         |        |           |          |       |          |              |
| PUN FILE 0787 SENT TO             | WINTERS | RDR AS | 7454 RECS | 0005 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP MYCC EXEC Z1            |         |        |           |          |       |          |              |
| PUN FILE 0788 SENT TO             | WINTERS | RDR AS | 7455 RECS | 0017 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP NICFOUN1 EXEC Z2        |         |        |           |          |       |          |              |
| PUN FILE 0789 SENT TO             | WINTERS | RDR AS | 7456 RECS | 0061 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP Q Q Z1                  |         |        |           |          |       |          |              |
| PUN FILE 0790 SENT TO             | WINTERS | RDR AS | 7457 RECS | 0016 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP RUN EXEC Z1             |         |        |           |          |       |          |              |
| PUN FILE 0791 SENT TO             | WINTERS | RDR AS | 7458 RECS | 0010 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP RUNDAEMO EXEC Z1        |         |        |           |          |       |          |              |
| PUN FILE 0792 SENT TO             | WINTERS | RDR AS | 7459 RECS | 0004 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP SETUP EXEC Z1           |         |        |           |          |       |          |              |
| PUN FILE 0793 SENT TO             | WINTERS | RDR AS | 7460 RECS | 0004 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP SPIRES HTML Z1          |         |        |           |          |       |          |              |
| PUN FILE 0794 SENT TO             | WINTERS | RDR AS | 7461 RECS | 0006 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP SPIRES INDEX Z1         |         |        |           |          |       |          |              |
| PUN FILE 0795 SENT TO             | WINTERS | RDR AS | 7462 RECS | 0005 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP STORES HELP Z1          |         |        |           |          |       |          |              |
| PUN FILE 0796 SENT TO             | WINTERS | RDR AS | 7463 RECS | 0143 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP STORES HTML Z1          |         |        |           |          |       |          |              |
| PUN FILE 0797 SENT TO             | WINTERS | RDR AS | 7464 RECS | 0006 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP STORES INDEX Z1         |         |        |           |          |       |          |              |
| PUN FILE 0798 SENT TO             | WINTERS | RDR AS | 7465 RECS | 0004 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP STRING H Z2             |         |        |           |          |       |          |              |
| PUN FILE 0799 SENT TO             | WINTERS | RDR AS | 7466 RECS | 0033 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP TCP H Z1                |         |        |           |          |       |          |              |
| PUN FILE 0800 SENT TO             | WINTERS | RDR AS | 7467 RECS | 0063 CPY | 001 Y | NOHOLD   | NOKEEP       |
| CARD DUMP TERRYH TYH239 Z1        |         |        |           |          |       |          |              |
| PUN FILE 0801 SENT TO             | WINTERS | RDR AS | 7468 RECS | 0051 CPY | 001 Y | NOHOLD   | NOKEEP       |
| FILENAME FILETYPE FM FORMAT LRECL |         |        | RECS      | BLOCKS   | DATE  | TIME     | LABEL        |
| A C                               | Z1 F    |        | 80        | 5        | 1     | 10/16/91 | 18:13:27 WWW |
| A ERRS                            | Z1 V    |        | 49        | 1        | 1     | 10/16/91 | 18:15:35 WWW |
| A EXEC                            | Z1 V    |        | 68        | 10       | 1     | 11/01/91 | 15:13:32 WWW |
| A TEXT                            | Z1 F    |        | 80        | 5        | 1     | 10/16/91 | 18:15:35 WWW |
| BINLIST @HTML                     | Z0 V    |        | 73        | 13       | 1     | 2/27/92  | 14:36:14 WWW |
| BINLIST @INDEX                    | Z0 F    |        | 80        | 9        | 1     | 2/27/92  | 14:36:49 WWW |
| BINLIST HELP                      | Z1 V    |        | 53        | 4        | 1     | 3/06/92  | 15:47:52 WWW |
| BINLIST HTML                      | Z1 V    |        | 77        | 13       | 1     | 3/09/92  | 11:36:29 WWW |
| BINLIST INDEX                     | Z1 F    |        | 80        | 10       | 1     | 2/27/92  | 14:54:47 WWW |
| BINLIST SAVINDEX                  | Z1 F    |        | 80        | 8        | 1     | 2/27/92  | 14:36:37 WWW |
| BSDTYPES H                        | Z1 V    |        | 70        | 120      | 1     | 10/15/91 | 18:01:30 WWW |
| CC_ALL EXEC                       | Z1 V    |        | 81        | 13       | 1     | 10/14/91 | 15:29:29 WWW |
| CC2 EXEC                          | Z1 V    |        | 58        | 8        | 1     | 10/30/91 | 14:18:05 WWW |
| CMOD EXEC                         | Z2 V    |        | 68        | 203      | 2     | 11/04/91 | 11:35:12 WWW |
| CMS PRESERVE                      | Z1 V    |        | 65        | 30       | 1     | 11/06/91 | 17:06:02 WWW |
| CPOBJ RMAP                        | Z1 F    |        | 80        | 3        | 1     | 10/16/91 | 18:46:59 WWW |
| DEFAULT @HTML                     | Z0 V    |        | 81        | 13       | 1     | 12/06/91 | 21:15:48 WWW |
| DEFAULT HTML                      | Z1 V    |        | 75        | 10       | 1     | 3/18/92  | 16:07:42 WWW |
| DEFAULTX HTML                     | Z1 V    |        | 78        | 12       | 1     | 3/18/92  | 16:02:28 WWW |
| DLOAD EXEC                        | Z1 V    |        | 64        | 4        | 1     | 11/01/91 | 15:15:36 WWW |
| EDCXV C                           | Z1 F    |        | 80        | 5        | 1     | 10/16/91 | 18:08:43 WWW |
| EDCXV TEXT                        | Z1 F    |        | 80        | 9        | 1     | 12/05/91 | 16:03:06 WWW |

|          |                        |      |       |     |    |          |          |     |
|----------|------------------------|------|-------|-----|----|----------|----------|-----|
| FEARCH   | ORIG                   | Z1 V | 76    | 125 | 2  | 11/06/91 | 12:04:44 | WWW |
| FGET     | @EXEC                  | Z0 V | 60    | 16  | 1  | 12/06/91 | 20:45:45 | WWW |
| FGET     | EXEC                   | Z2 V | 75    | 27  | 1  | 3/09/92  | 12:38:49 | WWW |
| FGET     | ORIG                   | Z2 V | 78    | 132 | 2  | 11/06/91 | 17:08:04 | WWW |
| FINDGATE | C                      | Z1 V | 78    | 245 | 2  | 11/06/91 | 17:05:49 | WWW |
| FINDGATE | C2                     | Z1 V | 78    | 245 | 2  | 10/14/91 | 15:28:41 | WWW |
| FINDGATE | ORIG                   | Z1 V | 78    | 245 | 2  | 11/04/91 | 11:30:12 | WWW |
| FINDGATE | SLACVM                 | Z1 V | 78    | 245 | 2  | 11/06/91 | 13:57:17 | WWW |
| FINDGATE | TEXT                   | Z1 F | 80    | 113 | 3  | 12/05/91 | 16:02:49 | WWW |
| FSEARCH  | @EXEC                  | Z0 V | 65    | 13  | 1  | 2/27/92  | 14:37:35 | WWW |
| FSEARCH  | EXEC                   | Z1 V | 69    | 63  | 1  | 3/18/92  | 16:01:08 | WWW |
| FSEARCH  | SAVE                   | Z1 V | 76    | 123 | 2  | 11/06/91 | 14:06:50 | WWW |
| FSEARCH  | SAVEEXEC               | Z1 V | 40    | 7   | 1  | 2/27/92  | 13:55:56 | WWW |
| HEP      | @HTML                  | Z0 V | 74    | 9   | 1  | 2/27/92  | 13:59:30 | WWW |
| HEP      | @INDEX                 | Z0 V | 43    | 12  | 1  | 2/27/92  | 13:59:39 | WWW |
| HEP      | HELP                   | Z1 V | 71    | 27  | 1  | 2/27/92  | 15:47:24 | WWW |
| HEP      | HTML                   | Z1 V | 73    | 9   | 1  | 3/06/92  | 15:47:24 | WWW |
| HEP      | INDEX                  | Z1 V | 43    | 12  | 1  | 3/09/92  | 11:36:45 | WWW |
| HTDAEMON | C                      | Z1 V | 85    | 639 | 1  | 2/27/92  | 13:26:11 | WWW |
| HTDAEMON | C2                     | Z1 V | 85    | 639 | 5  | 10/15/91 | 18:10:19 | WWW |
| HTDAEMON | MODULE                 | Z1 V | 65535 | 5   | 5  | 10/15/91 | 15:45:38 | WWW |
| HTDAEMON | TEXT                   | Z1 F | 80    | 183 | 32 | 12/05/91 | 16:03:14 | WWW |
| HTTCP    | C                      | Z1 V | 79    | 282 | 4  | 11/05/91 | 14:37:48 | WWW |
| HTTCP    | H                      | Z1 V | 78    | 94  | 2  | 10/16/91 | 17:04:54 | WWW |
| HTTCP    | TEXT                   | Z1 F | 80    | 77  | 1  | 10/14/91 | 15:47:38 | WWW |
| HTUTILS  | H                      | Z1 V | 79    | 85  | 2  | 11/05/91 | 14:38:12 | WWW |
| LOAD     | MAP                    | Z1 F | 100   | 2   | 1  | 10/14/91 | 15:47:21 | WWW |
| MAKE     | EXEC                   | Z1 V | 51    | 6   | 1  | 12/05/91 | 15:55:46 | WWW |
| MYCC     | EXEC                   | Z1 V | 63    | 51  | 1  | 9/19/91  | 14:06:07 | WWW |
| NICFOUN1 | EXEC                   | Z2 V | 78    | 125 | 1  | 10/16/91 | 18:28:29 | WWW |
| Q        | Q                      | Z1 F | 80    | 52  | 2  | 9/24/91  | 11:01:53 | WWW |
| RUN      | EXEC                   | Z1 V | 74    | 21  | 2  | 10/16/91 | 17:22:58 | WWW |
| RUNDAEMO | EXEC                   | Z1 V | 33    | 5   | 1  | 9/19/91  | 14:19:57 | WWW |
| SETUP    | EXEC                   | Z1 V | 62    | 4   | 1  | 11/06/91 | 17:03:09 | WWW |
| SPIRES   | HTML                   | Z1 V | 74    | 9   | 1  | 11/05/91 | 14:57:21 | WWW |
| SPIRES   | INDEX                  | Z1 V | 43    | 12  | 1  | 3/10/92  | 10:41:55 | WWW |
| STORES   | HELP                   | Z1 F | 80    | 267 | 1  | 12/12/91 | 15:59:13 | WWW |
| STORES   | HTML                   | Z1 V | 76    | 10  | 6  | 3/05/92  | 10:43:26 | WWW |
| STORES   | INDEX                  | Z1 F | 80    | 10  | 1  | 3/09/92  | 11:36:54 | WWW |
| STRING   | H                      | Z2 F | 80    | 75  | 1  | 3/04/92  | 15:51:24 | WWW |
| TCP      | H                      | Z1 V | 91    | 180 | 2  | 10/16/91 | 17:07:43 | WWW |
| TERRYH   | TYH239                 | Z1 F | 132   | 87  | 2  | 10/14/91 | 15:47:28 | WWW |
| ----->   | Batch return code = 0. |      |       |     | 3  | 11/14/91 | 18:43:33 | WWW |

-----> System cleanup \$BCLEAN.

```

*****
*
* End execution of JCW122 for WINTERS at 03:15:11 on 22/07/98.
*
* Actual CPU time (mm:ss[.th]):          Virtual = 0:00.51 , Total = 0:01.15
* I/O counts:  SIO=000766 RDR=000000 PRT=000257 PCH=003755
*
* Space used on A-disk at job end:  48K
*
* I/O counts on units still available
* Spool units
* 0009:  180      000C:      0      000D:  89      000E:      0
* 00AE:      0
* Dasd units

```

```
* 0190(S):    34    0191(A):   100    019E(Y):    37    0555(Z):   194    *
* 059E(T):    12    059F(U):     6    05A0(V):    27    05A1(R):    18    *
*****
```

```

total 820
-rw-r--r-- 1 winters sf 10787 Jul 22 03:37 README
-r--r--r-- 1 winters sf 405 Oct 16 1991 a.c
-r--r--r-- 1 winters sf 50 Oct 16 1991 a.errs
-r--r--r-- 1 winters sf 242 Nov 1 1991 a.exec
-r--r--r-- 1 winters sf 405 Oct 16 1991 a.text
-r--r--r-- 1 winters sf 324 Feb 27 1992 binlist.@html
-r--r--r-- 1 winters sf 729 Feb 27 1992 binlist.@index
-r--r--r-- 1 winters sf 110 Mar 6 1992 binlist.help
-r--r--r-- 1 winters sf 325 Mar 9 1992 binlist.html
-r--r--r-- 1 winters sf 810 Feb 27 1992 binlist.index
-r--r--r-- 1 winters sf 648 Feb 27 1992 binlist.savindex
-r--r--r-- 1 winters sf 3321 Oct 15 1991 bsdtypes.h
-r--r--r-- 1 winters sf 253 Oct 30 1991 cc2.exec
-r--r--r-- 1 winters sf 208 Oct 14 1991 cc_all.exec
-r--r--r-- 1 winters sf 4434 Nov 4 1991 cmod.exec
-r--r--r-- 1 winters sf 1136 Nov 6 1991 cms.preserve
-r--r--r-- 1 winters sf 243 Oct 16 1991 cpobj.rmap
-r--r--r-- 1 winters sf 347 Dec 6 1991 default.@html
-r--r--r-- 1 winters sf 329 Mar 18 1992 default.html
-r--r--r-- 1 winters sf 432 Mar 18 1992 defaultx.html
-r--r--r-- 1 winters sf 150 Nov 1 1991 dload.exec
-r--r--r-- 1 winters sf 405 Oct 16 1991 edcxv.c
-r--r--r-- 1 winters sf 729 Dec 5 1991 edcxv.text
-r--r--r-- 1 winters sf 4663 Nov 6 1991 fearch.orig
-r--r--r-- 1 winters sf 399 Dec 6 1991 fget.@exec
-r--r--r-- 1 winters sf 728 Mar 9 1992 fget.exec
-r--r--r-- 1 winters sf 5079 Nov 6 1991 fget.orig
-r--r--r-- 1 winters sf 7057 Nov 6 1991 findgate.c
-r--r--r-- 1 winters sf 7052 Oct 14 1991 findgate.c2
-r--r--r-- 1 winters sf 7057 Nov 4 1991 findgate.orig
-r--r--r-- 1 winters sf 7014 Nov 6 1991 findgate.slacvm
-r--r--r-- 1 winters sf 9153 Dec 5 1991 findgate.text
-r--r--r-- 1 winters sf 355 Feb 27 1992 fsearch.@exec
-r--r--r-- 1 winters sf 1877 Mar 18 1992 fsearch.exec
-r--r--r-- 1 winters sf 4624 Nov 6 1991 fsearch.save
-r--r--r-- 1 winters sf 142 Feb 27 1992 fsearch.saveexec
-r--r--r-- 1 winters sf 319 Feb 27 1992 hep.@html
-r--r--r-- 1 winters sf 199 Feb 27 1992 hep.@index
-r--r--r-- 1 winters sf 1019 Mar 6 1992 hep.help
-r--r--r-- 1 winters sf 312 Mar 9 1992 hep.html
-r--r--r-- 1 winters sf 199 Feb 27 1992 hep.index
-r--r--r-- 1 winters sf 16495 Oct 15 1991 htdaemon.c
-r--r--r-- 1 winters sf 16492 Oct 15 1991 htdaemon.c2
-r--r--r-- 1 winters sf 130653 Dec 5 1991 htdaemon.module
-r--r--r-- 1 winters sf 14823 Nov 5 1991 htdaemon.text
-r--r--r-- 1 winters sf 7056 Oct 16 1991 http.c
-r--r--r-- 1 winters sf 2294 Oct 14 1991 http.h
-r--r--r-- 1 winters sf 6237 Nov 5 1991 http.text
-r--r--r-- 1 winters sf 1882 Oct 14 1991 htutils.h
-r--r--r-- 1 winters sf 202 Dec 5 1991 load.map
-r--r--r-- 1 winters sf 185 Sep 19 1991 make.exec
-r--r--r-- 1 winters sf 1224 Oct 16 1991 mycc.exec
-r--r--r-- 1 winters sf 4806 Sep 24 1991 nicfounl.exec
-r--r--r-- 1 winters sf 4212 Oct 16 1991 q.q
-r--r--r-- 1 winters sf 675 Sep 19 1991 run.exec
-r--r--r-- 1 winters sf 98 Nov 6 1991 rundaemo.exec
-r--r--r-- 1 winters sf 131 Nov 5 1991 setup.exec
-r--r--r-- 1 winters sf 1463 Jul 21 18:58 spicell192.backup
-r--r--r-- 1 winters sf 312 Mar 10 1992 spires.html

```

```
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-rw-r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-r--r--r-- 1 winters sf
-rw-r--r-- 1 winters sf
```

```
199 Dec 12 1991 spires.index
21627 Mar 5 1992 stores.help
313 Mar 9 1992 stores.html
810 Mar 4 1992 stores.index
6075 Oct 16 1991 string.h
5125 Oct 14 1991 tcp.h
11571 Nov 14 1991 terryh.tyh239
560 Jul 22 03:15 unix-commands
7236 Jul 21 20:33 winters.filelist
32452 Jul 21 20:18 winters.jcw122
0 Jul 22 03:39 winters.ls
```