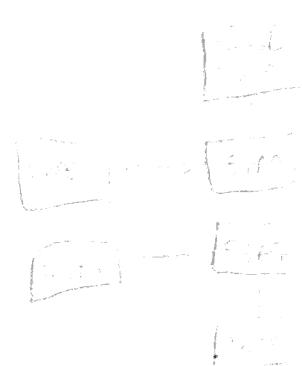


```

; Test the .exec system call with the CDOS Simulator
;
; The object of the program is to load the Simulator, which will load
; Sbasic.com from the /bin directory, which will load and execute the
; program "Testi" from the current directory.
;
; First, include the Cromix Operating System Jsysequ file
;
*include      Jsysequ.z80
;
Start: ld      de,arglist      ; pointers to args
        ld      hl,prog          ; program to be loaded
        ld      bc,0              ; required under vers. 11
        jsys   .exec             ; execute simulator
;
; data definitions
;
prog:  defb    '/bin/sim.bin\0'      ; all terminated by \0
arglist: defw   argu0,argu1,0       ; may be as many as req'd
argu0:  defb    '/bin/sbasic.com\0'  ; .com program is an arg
argu1:  defb    'testi\0'           ; so is Testi
;
        end
;

10 Rem      Testi - print a message to indicate we're here
20 @"Testi is now executing - successful .exec call"
30 @
40 Bye

```



```
0001 ; Test the .exec system call with the CDDOS Simulator
0002 ;
0003 ; The object of the program is to load the Simulator, w
0004 ; Sbasic.com from the /bin directory, which will load a
0005 ; program "TestI" from the current directory.
0006 ;
0007 ; First, include the Cromix Operating System Jsysequ fi
0008 ;
0009 *include      Jsysequ.z80
(***** end of include *****)
0199 ;
0000' 111800' 0200 Start: ld      de,arglist      ; pointers to args
0003' 210B00' 0201         ld      hl,prog       ; program to be loaded
0006' 010000' 0202         ld      bc,0          ; required under vers.
0009' CF4C      0203         jsys   .exec        ; execute simulator
0204 ;
0205 ; data definitions
0206 ;
000B' 2F62696E 0207 prog:  defb    '/bin/sim.bin\0'      ; all terminate
0018' 1E00'     0208 arglist: defw   argu0,argui,0      ; may be as man
2E00'
0000
001E' 2F62696E 0209 argu0: defb    '/bin/sbasic.com\0'    ; .com program
002E' 74657374 0210 argui: defb    'testI\0'           ; so is TestI
0211 ;
0034' (0000)   0212         end
```

Errors : 0  
Range Count : 0

Program Length 0034 (52)

```
; Test the .shell system call by executing the command line
; # Sbasic test1      (same procedure as testexec.bin)
;
*include      jsysequ.z80
;
start: ld      de,arglist      ; pointers to args
       ld      bc,0          ; req'd in vers. 11.00
       jsys   .shell        ; shell system call
;
; data definitions
;
; this is the same as the command line
;      sh -c sbasic test1
;
; notice that all the arguments are terminated
; by a null (hex 0, or \0)
;
arglist: defw    argu0,argu1,argu2,0
argu0:  defb    'sh\0'
argu1:  defb    '-c\0'
argu2:  defb    'sbasic test1\0'
;
end
```

\*\*\* SHELLTST \*\*\*

```
0001 ; Test the .shell system call by executing the command
0002 ; # Sbasic testl      (same procedure as testexec.bin)
0003 ;
0004 *include      jsysequ.z80
    (**/** end of include **/**)
0194 ;
0000' 110800' 0195 start: ld      de,arglist      ; pointers to args
0003' 010000' 0196         ld      bc,0          ; 'req'd in vers. 11.00
0006' CF49'   0197 jsys     .shell      ; shell system call
0198 ;
0199 ; data definitions
0200 ;
0201 ; this is the same as the command line
0202 ;       sh -c sbasic testl
0203 ;
0204 ; notice that all the arguments are terminated
0205 ; by a null (hex 0, or \0)
0206 ;
0008' 1000' 0207 arglist: defw      argu0,argu1,argu2,0
1300'
1600'
0000
0010' 736800 0208 argu0: defb      'sh\0'
0013' 2D6300 0209 argu1: defb      '-c\0'
0016' 73626173 0210 argu2: defb      'sbasic testl\0'
0211 ;
0023' (0000) 0212         end
```

Errors 0  
Range Count 0

Program Length 0023 (35)



/\* TDECS.H

## DECLARATIONS FOR TCALLS MODULES

DKE 12-22-80

DKE 1-16-81

DKE 1-20-81

冰 /

```
#DEFINE INVINT INT  
#DEFINE INVLONG LONG
```

```
/*#DEFINE ERR (-1)
#define STDIN 0
#define STDOUT 1
#define STDERR 2
#define MAXERRS 41
#define BLANKLINE; PRINTF( "\n" );
```

/\*-----DEVICE NUMBER / TYPE STRUCTURE FOR ESTAT CALL-----\*/

## STRUCT BTAG C

CHAR DEVO  
CHAR ETYPE

三

/\*-----INODE-----\*/

STRUCT IN C /\* INODE STRUCTURE \*/

INVENT OWNER:  
INVENT GROUP:

CHAR	OWNER#
CHAR	AGROUP#
CHAR	AOOTHER#
CHAR	STATUS#
CHAR	NLINKS#
CHAR	DUMMY#

```
INVLONG SIZE;
INVINT INODE;
INVINT PARENT;
INVINT DCOUNT;
INVLONG USAGE;
CHAR TCREATED;
CHAR TMODIFIED;
CHAR TACCESSED;
CHAR TDUMPED;
```

INVOLONG INDEXE 2013

/\*TEXEC

TESTS EXEC CROMIX CALL

DKE 1-26-81

\*/

```
#INCLUDE "TDECS.H"
#INCLUDE "JSYSEQU.H"
```

MAIN()

{

```
    INT CH, I, ID, STATUSESC20;
```

```
    CHAR SE1003;
```

```
    CHAR *ARGV[] = { "/BIN/SPOOL.BIN", "/DEV/TTY1", "EXEC.DAT", 0 };
```

```
    PRNTFC( "EXEC TEST\n" );
```

```
    PRNTFC( "THIS TEST SHOULD FIRST CREATE A FILE AND WRITE 5 LINES TO IT: %s\n"
            "((CH = CREATE( \"EXEC.DAT\", OP<WRITE \& OP<TRUNC,
                OP<WRITE \& OP<TRUNC ) ) != -1 ) ?\n"
            "    \"OK\" : \"CREATE ERROR\" );" );
```

```
    FOR (I = 1; I <= 5; ++I) E
```

```
        SPRINTF( S, "\nFILE LINE %d\n", I );
        WRLINE( CH, S );
```

```
    }
```

```
    CLOSE( CH );
```

```
    PRNTFC( "THEN EXEC SPOOL TO DISPLAY THAT FILE ON THIS SCREEN:\n" );
    EXEC( "/BIN/SPOOL.BIN", ARGV, 0 );
```

```
}
```

/\* TFEXEC

TESTS FEXEC CROMIX CALL

DKE 1-24-81

\*/

```
#INCLUDE "TDECS.H"
#include "JSYSEQU.H"

TFEXEC()
{
    INT CH, I, ID, STATUSES;
    CHAR SC100[] =
    CHAR *ARGV[] = { "/BIN/SPOOL.BIN", "/DEV/TTY1", "FEXEC.DAT", 0 };

    PRINTEC("FEXEC TEST\n");

    PRINTEC("FIRST, CREATE A FILE AND WRITE 5 LINES TO IT: \n",
            ((CH = CREATEC("FEXEC.DAT", OP<WRITE \ OP<TRUNC,
                           OP<WRITE \ OP<TRUNC) == -1) ? "OK" : "CREATE ERROR");
    IF (CH == -1) ERROR( STDERR );

    FOR (I = 1; I <= 5; ++I)
        SPRINTF(S, "\TFILE LINE %d\n", I);
        WRLINE(CH, S);

    CLOSE(CH);

    PRINTEC("NOW SPOOL THAT FILE TO THIS SCREEN\n");
    ID = FEXEC("BIN/SPOOL.BIN", ARGV, 0);
    WAIT(0, ID, STATUSES);
    PRINTEC("5 LINES SHOULD HAVE BEEN WRITTEN.\n");

    BLANKLINE();
}
```

/\* TSHELL

TESTS SHELL CROMIX CALL.

DKE 1-26-81

\*/

MAIN()

{

INT STATUS=SE2;‡  
CHAR \*ARGS1[3] = { "SHELL", "-C",  
"PSTAT‡ EX", 0 }‡

PRINTF( "SHELL TEST\n" );

PRINTF( "THIS ROUTINE SHOULD TRANSFER TO A SHELL, WHICH \\\nDOES A PSTAT, THEN EXITS\n" );

SHELL( ARGS1 );

}

/\* TCREATE.C

TESTS CREATE CROMIX CALL

DKE 12-23-80

\*/

```
#CONTROL NSOURCE
#include "JSYSEQU.H"
#include "TDECS.H"
#CONTROL SOURCE
```

TCREATE()

```
C
    EXTERN INT ERRNO;
    INT FN;
    STRUCT IN *INOP;

    PRINTF( "CREATE TEST\n" );
    PRINTF( "FIRST, ATTEMPT TO CREATE /C/TCALLS/DATA: " );
    IF (CREATE( "/C/TCALLS/DATA", OPEREAD\OPCONDF ) == ERR)
        PRINTF( "ERROR %D, AS EXPECTED\n", ERRNO );
    ELSE
        PRINTF( "NO ERROR, = WRONG\n" );

    PRINTF( "SECOND, CREATE TCRE1: " );
    IF (CREATE( "TCRE1", OPEWRITE\OPTRUNCF ) == ERR)
        PRINTF( "ERROR %D\n", ERRNO );
    ELSE
        PRINTF( "OK\n" );

    PRINTF( "THIRD, CREATE TCRE2 FOR EXCLUSIVE ACCESS: " );
    IF ((FN = CREATE( "TCRE2", OPEXRDWR\OPTRUNCF, OPEXRDWR )) == ERR)
        PRINTF( "ERROR %D\n", ERRNO );
    ELSE
        PRINTF( "OK\n" );

    PRINTF( "FN=%D\n", FN );

    CSTAT( FN, STETALL, INOP );
    PRINTF( "THE ACCESS BYTES = %02X, %02X, %02X\n",
           INOP->AOWNER, INOP->AGROUP, INOP->AOOTHER );
    PRINTF( "\n" );
```