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Batch: S3

Experiment No. 8

Aim: To perform an assembly program based on string instructions - non-overlapping block transfer.

Source code:

```
.model small
.data data segment
str1 db 01H,02H,03H
str2 db 3 dup(0) data
ends .code code
segment assume
cs:code,ds:data start:
mov ax,data
mov ds,ax
mov es,ax
lea si,str1 lea
di,str2
mov cx,03H
cld
rep movsb
mov ah,4cH
int 21H
code ends
end start
```

Output:

```

≡ File Edit View Run Breakpoints Data Options Window Help READY
CPU 80486
cs:0000 B8AD48      mov     ax,48AD      ax 48AD      c=0
cs:0003 8ED8        mov     ds,ax        bx 0000      z=0
cs:0005 8EC0        mov     es,ax        cx 0003      s=0
cs:0007 BE0000      mov     si,0000      dx 0000      o=0
cs:000A BF0300      mov     di,0003      si 0000      p=0
cs:000D B90300      mov     cx,0003      di 0003      a=0
cs:0010 FC          cld
cs:0011 F3A4        rep movsb    bp 0000      i=1
cs:0013 B44C        [ ]=Dump          sp 0000      d=0
cs:0015 CD21        ds:0000 01 02 03 00 00 00 00 00 00 00
cs:0017 0000        ds:0008 00 00 00 00 00 00 00 00 00 00
cs:0019 0000        ds:0010 B8 AD 48 8E D8 8E C0 BE 7 1HÄ+Ä
cs:001B 0000        ds:0018 00 00 BF 03 00 B9 03 00 1 1 1 1

489D:0000 CD 20 FF 9F 00 EA FF FF = f Ω
489D:0008 AD DE E6 01 AF 15 B0 01 i μ»§
489D:0010 AF 15 83 02 13 10 92 01 »§â!!!f
489D:0018 01 01 01 00 02 FF FF FF 000 0

ss:0002 6474
ss:0000 0000

F1-Help F2-Bkpt F3-Mod F4-Here F5-Zoom F6-Next F7-Trace F8-Step F9-Run F10-Menu

```