

Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International

Syntax: TASM [options] source [,object] [,listing] [,xref]

/a,/s       Alphabetic or Source-code segment ordering  
/c       Generate cross-reference in listing  
/dSYM[=VAL]   Define symbol SYM = 0, or = value VAL  
/e,/r       Emulated or Real floating-point instructions  
/h,/?       Display this help screen  
/iPATH       Search PATH for include files  
/jCMD       Jam in an assembler directive CMD (eg. /jIDEAL)  
/kh#       Hash table capacity # symbols  
/l,/la       Generate listing: l=normal listing, la=expanded listing  
/ml,/mx,/mu   Case sensitivity on symbols: ml=all, mx=globals, mu=none  
/mv#       Set maximum valid length for symbols  
/m#       Allow # multiple passes to resolve forward references  
/n       Suppress symbol tables in listing  
/o,/op       Generate overlay object code, Phar Lap-style 32-bit fixups  
/p       Check for code segment overrides in protected mode  
/q       Suppress OBJ records not needed for linking  
/t       Suppress messages if successful assembly  
/w0,/w1,/w2   Set warning level: w0=none, w1=w2=warnings on  
/w-xxx,/w+xxx   Disable (-) or enable (+) warning xxx  
/x       Include false conditionals in listing  
/z       Display source line with error message  
/zi,/zd       Debug info: zi=full, zd=line numbers only

C:\>TASM XCHANGE.ASM /Z

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Assembling file:   XCHANGE.ASM

Error messages:   None

Warning messages:  None

Passes:           1

Remaining memory:  491k

C:\>TLINK /?

Turbo Link Version 4.01 Copyright (c) 1991 Borland International

Syntax: TLINK objfiles, exefile, mapfile, libfiles, deffile

@xxxx indicates use response file xxxx

/m Map file with public       /x No map file at all  
/i Initialize all segments    /l Include source line numbers  
/L Specify library search paths /s Detailed map of segments  
/n No default libraries       /d Warn if duplicate symbols in libraries  
/c Case significant in symbols /3 Enable 32-bit processing  
/o Overlay switch            /v Full symbolic debug information  
/P[=NNNNN] Pack code segments /A=NNNN Set NewExe segment alignment  
/ye Expanded memory swapping   /yx Extended memory swapping  
/e Ignore Extended Dictionary  
/t Create COM file (same as /Tdc)  
/C Case sensitive exports and imports  
/Txx Specify output file type  
      /Tdx DOS image (default)  
      /Twx Windows image  
      (third letter can be c=COM, e=EXE, d=DLL)

C:\>TLINK XCHANGE /v

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Warning: No stack

```

File View Run Breakpoints Data Options Window Help
[CPU 80486] 1=[↑][↓]
cs:0000 FC cld ax 0000 c=0
cs:0001 BCDA mov dx,ds bx 0000 z=0
cs:0003 55 push bp cx 0000 s=0
cs:0004 8BEC mov bp,sp dx 0000 o=0
cs:0006 C5760C lds si,[bp+0C] si 0000 p=0
cs:0009 C47E08 les di,[bp+08] di 0000 a=0
cs:000C 8B4E06 mov cx,[bp+06] bp 0000 i=1
cs:000F D1E9 shr cx,1 sp 0000 d=0
cs:0011 7309 jnb 001C ds 449D
cs:0013 268A05 mov al,es:[di] es 449D
cs:0016 A4 movsb ss 44AC
cs:0017 8B44FF mov [si-01],al cs 44AD
cs:001A 740B je 0027 ip 0000

ds:0000 CD 20 FF 9F 00 EA FF FF = f 0
ds:0008 AD DE E5 01 00 15 AF 01 i 0 0 0
ds:0010 00 15 7D 02 1C 0F 92 01 0 0 0
ds:0018 01 01 01 00 02 FF FF FF 0 0 0

ss:0002 545C
ss:0000 3A43

```

C:\>edit 10\_1.asm

C:\>tasm 10\_1.ASM /z

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Assembling file: 10\_1.ASM

Error messages: None

Warning messages: None

Passes: 1

Remaining memory: 490k

C:\>tlink 10\_1 /v

Turbo Link Version 4.01 Copyright (c) 1991 Borland International

C:\>td 10\_1\_

```

File View Run Breakpoints Data Options Window Help
[CPU 80486] 1=[↑][↓]
cs:0000 1E push ds ax 0060 c=1
cs:0001 33C0 xor ax,ax bx 0000 z=0
cs:0003 50 push ax cx 0000 s=0
cs:0004 B8AD44 mov ax,44AD dx 0626 o=1
cs:0007 8ED8 mov ds,ax si 0000 p=1
cs:0009 B8AE44 mov ax,44AE di 0000 a=0
cs:000C 8EC0 mov es,ax bp 0000 i=1
cs:000E A10000 mov ax,[0000] sp 01FC d=0
cs:0011 F7260200 mul word ptr [000] ds 44AD
cs:0015 BB0400 mov bx,0004 es 44AE
cs:0018 8907 mov [bx],ax ss 44B1
cs:001A 895702 mov [bx+02],dx cs 44AF
cs:001D CB retf ip 0015

449D:0000 CD 20 FF 9F 00 EA FF FF = f 0
449D:0008 AD DE E5 01 00 15 AF 01 i 0 0 0
449D:0010 00 15 7D 02 1C 0F 92 01 0 0 0
449D:0018 01 01 01 00 02 FF FF FF 0 0 0

ss:01FE 449D
ss:01FC 0000

```

```
C:\>tlink 10_2 /v
Turbo Link Version 4.01 Copyright (c) 1991 Borland International
Fatal: Unable to open file '10_2.obj'
```

```
C:\>edit 10_2.asm
```

```
C:\>tasm 10_2.ASM /z
Turbo Assembler Version 2.51 Copyright (c) 1988, 1991 Borland International
```

```
Assembling file: 10_2.ASM
Error messages:  None
Warning messages: None
Passes:         1
Remaining memory: 491k
```

```
C:\>tlink 10_2 /v
Turbo Link Version 4.01 Copyright (c) 1991 Borland International
Warning: No stack
```

```
C:\>10_2
8B
```

```
C:\>edit 10_3.asm
```

```
C:\>tasm 10_3.asm /z
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```

```
Assembling file: 10_3.asm
Error messages:  None
Warning messages: None
Passes:         1
Remaining memory: 490k
```

```
C:\>tlink 10_3 /v
Turbo Link Version 4.01 Copyright (c) 1991 Borland International
```

```
C:\>10_3
please input one number(0~9):
636
```

```
C:\>edit 10_4.asm
```

```
C:\>tasm 10_4.ASM /z
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```

```
Assembling file: 10_4.ASM
Error messages:  None
Warning messages: None
Passes:         1
Remaining memory: 490k
```

```
C:\>tlink 10_4 /v
Turbo Link Version 4.01 Copyright (c) 1991 Borland International
Warning: No stack
```

```
C:\>10_4
03 03 04 03 03 04
```

C:\>edit 10\_5.asm

C:\>tasm 10\_5.ASM

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Assembling file: 10\_5.ASM

Error messages: None

Warning messages: None

Passes: 1

Remaining memory: 491k

C:\>tlink 10\_5 /v

Turbo Link Version 4.01 Copyright (c) 1991 Borland International

Warning: No stack

C:\>10\_5

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