

Microsoft (R) Macro Assembler Version 6.11

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simple.asm

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```
;Program: Simple.asm
;Name: Gene Bailey
;Date: Sept. 24, 2009
;Purpose: illustrate use of registers
```

```
.486
```

```
.model Flat
```

```
ExitProcess PROTO NEAR32 stdcall, dwExitCode:DWORD
```

```
.Stack 100h
```

```
00000000 .Data
```

```
00000000 0000000A [      strName db 10 dup('AB')
```

```
4241
```

```
]
```

```
00000014 0000      sID      dw  ?
```

```
00000016 00000000      iFICA   dd  ?
```

```
0000001A 00000004 [      sX      dw  4 dup (25,4,6,7)
```

```
0019 0004
```

```
0006 0007
```

```
]
```

```
0000003A 00000002 [      iY      dd  2 dup(17)
```

```
00000011
```

```
]
```

```
00000042 00000004 [      sZ      dw  4 dup(?)
```

```
0000
```

```
]
```

```
0000004A 0A 0D 45 6E 74      bMsg1   db  10,13,"Enter num1: 0",0
```

```
65 72 20 6E 75
```

```
6D 31 3A 20 30
```

```
00
```

```
0000005A 0A 0D 48 65 6C      bMsghello db 10,13,"Hello, World!",0
```

```
6C 6F 2C 20 57
```

```
6F 72 6C 64 21
```

```
00
```

```

0000006A 0000          sNum1  dw  ?
0000006C 0000          sNum2  dw  ?

00000000          .Code
00000000      _start:
00000000
00000000 66| A1          mov ax, sX
0000001A R
00000006 66| 83 C0 04      add ax,4
0000000A B8 FFFFFFFF      mov eax, -1
0000000F 83 C0 05      add eax, 5
00000012 A1 0000003A R      mov eax, iY
00000017 83 E8 07      sub eax, 7
0000001A A0 00000000 R      mov al,strName
0000001F BF 00000000 R      mov edi,offset strName

```

```

00000024      done:
            INVOKE ExitProcess,0
0000002B      PUBLIC _start

```

END

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Segments and Groups:

N a m e	Size	Length	Align	Combine	Class
FLAT	GROUP				
STACK	32 Bit	00000100	DWord	Stack	'STACK'
_DATA	32 Bit	0000006E	DWord	Public	'DATA'
_TEXT	32 Bit	0000002B	DWord	Public	'CODE'

Procedures, parameters and locals:

N a m e	Type	Value	Attr
\$\$\$\$\$00001	P Near	00000000	_TEXT Length= 0000002B Private
done	L Near	00000024	_TEXT
ExitProcess	P Near	00000000	FLAT Length= 00000000 External STDCALL

Symbols:

N a m e	Type	Value	Attr
@CodeSize	Number	00000000h	
@DataSize	Number	00000000h	
@Interface	Number	00000000h	
@Model	Number	00000007h	
@code	Text	_TEXT	
@data	Text	FLAT	
@fardata?	Text	FLAT	
@fardata	Text	FLAT	
@stack	Text	FLAT	
_start	L Near	00000000	_TEXT Public
bMsg1	Byte	0000004A	_DATA
bMsghello	Byte	0000005A	_DATA
done	L Near	00000024	_TEXT
iFICA	DWord	00000016	_DATA
iY	DWord	0000003A	_DATA
sID	Word	00000014	_DATA
sNum1	Word	0000006A	_DATA
sNum2	Word	0000006C	_DATA
sX	Word	0000001A	_DATA
sZ	Word	00000042	_DATA
strName	Byte	00000000	_DATA

0 Warnings

0 Errors