

```
<1 north:~/Projects > cat ex.main.c
```

```
#include <stdio.h>

int addthem( int, int );

int main()
{
    int A = 14;
    int B = 29;
    int C;

    C = addthem( A, B );

    printf( "\nThe sum of %d and %d is %d\n\n", A, B, C );

    return 0;
}
```

```
<2 north:~/Projects > cat ex.addthem.s
```

```
        .section ".text"
        .align    4

        .global   addthem
addthem:
    save    %sp, -96, %sp

    call    iu_window    ! Debugging output
    nop

    add     %i0, %i1, %i0

    call    iu_window    ! Debugging output
    nop

    ret
    restore
```

```
<3 north:~/Projects > gcc ex.main.c ex.addthem.s /user/cse320/lib/reglib.o
```

```
<4 north:~/Projects > a.out
```

```
IU WINDOW      y: 00000000 psr: fe401000 icc: 4 (-Z--)
g0: 00000000 o0: 00000001 10: 00000001 i0: 0000000e
g1: 0000001d o1: ffbff6e4 11: ffbff6e4 i1: 0000001d
g2: 00000000 o2: ffbff6ec 12: 00000000 i2: 00000000
g3: 00000000 o3: 00021a84 13: 00000000 i3: 00000000
g4: 00000000 o4: 00000000 14: 00000000 i4: 00000000
g5: 00000001 o5: ff1e0140 15: 00000000 i5: 00000000
g6: 00000000 o6: ffbff5a0 16: 00000000 i6: ffbff600
g7: ff1e2a00 o7: 00010bb4 17: 00000000 i7: 00010b74
```

```
IU WINDOW      y: 00000000 psr: fe401000 icc: 4 (-Z--)
g0: 00000000 o0: 00000001 10: 00000001 i0: 0000002b
g1: 0000001d o1: ffbff6e4 11: ffbff6e4 i1: 0000001d
g2: 00000000 o2: ffbff6ec 12: 00000000 i2: 00000000
g3: 00000000 o3: 00021a84 13: 00000000 i3: 00000000
g4: 00000000 o4: 00000000 14: 00000000 i4: 00000000
g5: 00000001 o5: ff1e0140 15: 00000000 i5: 00000000
g6: 00000000 o6: ffbff5a0 16: 00000000 i6: ffbff600
g7: ff1e2a00 o7: 00010bc0 17: 00000000 i7: 00010b74
```

```
The sum of 14 and 29 is 43
```