TouchCore Family

Application Note #033 (AN033-V1.0)

AN

[GenTos]

Keil Inline Asm

V1.0

March 2008

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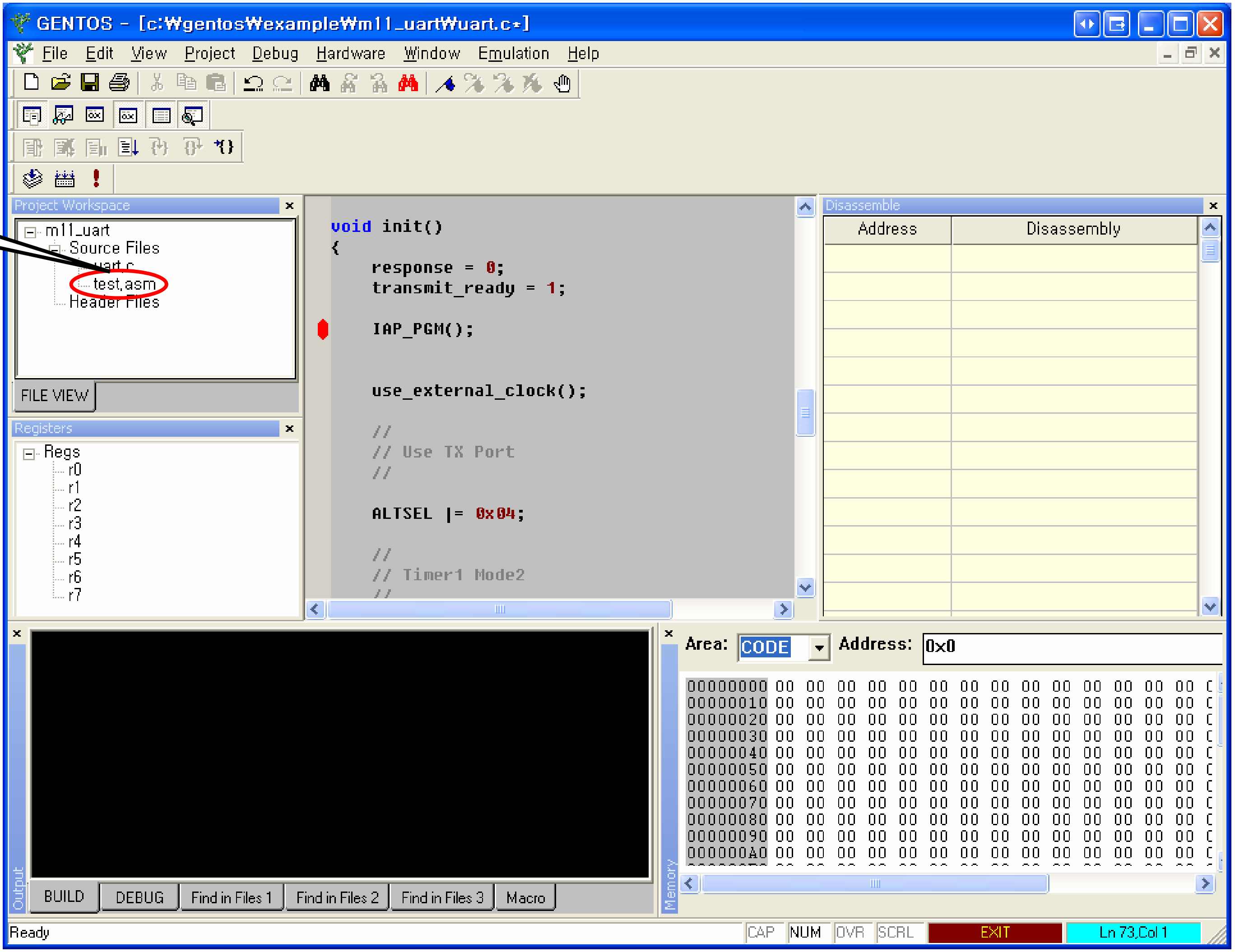
1.1 Insert Inline Assembly code

- Insert assembly file in GenTos

Include the inline assembly files in source files list.



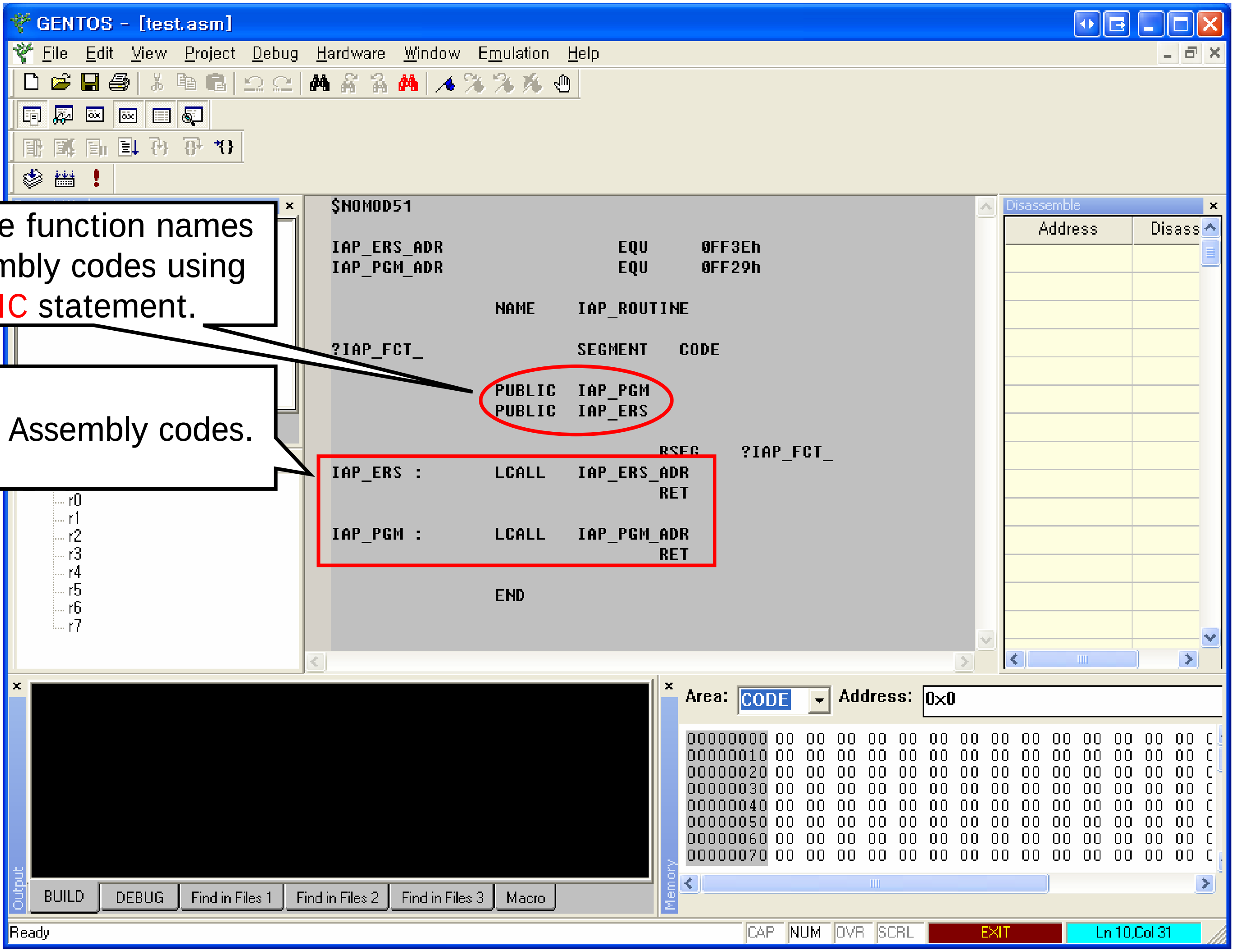
```
void init()
{
    response = 0;
    transmit_ready = 1;

    IAP_PGM();


    use_external_clock();

    //
    // Use TX Port
    //

    ALTSEL  |= 0x04;

    //
    // Timer1 Mode2
    //
```

Area: CODE Address: 0x0

```
00000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000010 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000020 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000030 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000040 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000060 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000070 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000080 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000090 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

1.2 Insert Inline Assembly code

- Insert assembly file in GenTos



```
$NOMOD51

IAP_ERS_ADR                 EQU     0FF3Eh
IAP_PGM_ADR                 EQU     0FF29h

                NAME    IAP_ROUTINE

?IAP_FCT_               SEGMENT   CODE

                PUBLIC  IAP_PGM
                PUBLIC  IAP_ERS

                                RSEG    ?IAP_FCT_
IAP_ERS :       LCALL   IAP_ERS_ADR
                                RET

IAP_PGM :       LCALL   IAP_PGM_ADR
                                RET

                END
```

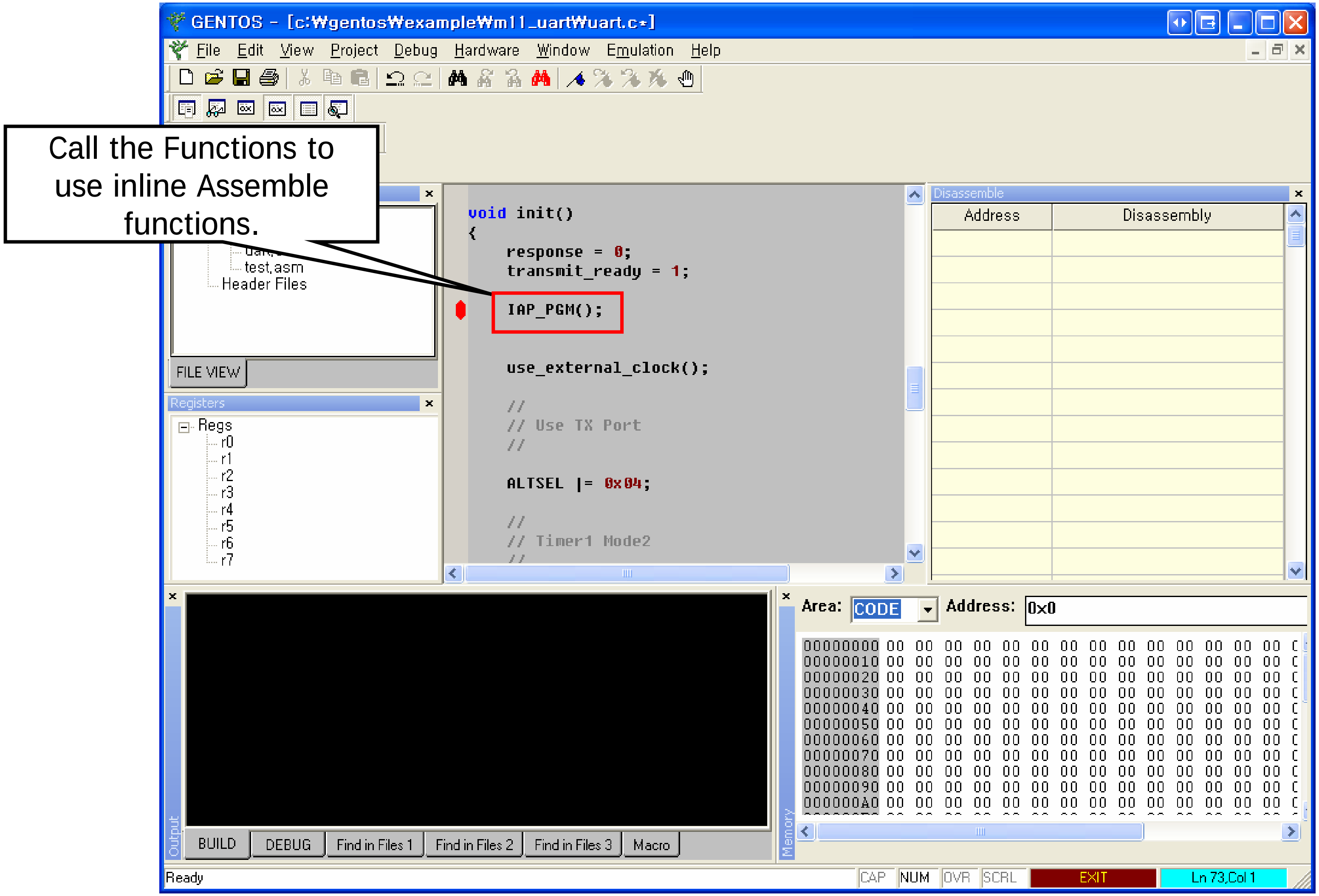
```
00000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000010 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000020 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000030 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000040 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000060 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000070 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

Define the function names for Assembly codes using PUBLIC statement.

Write the Assembly codes.

1.3 Insert Inline Assembly code

- Insert assembly file in GenTos



Call the Functions to use inline Assemble functions.

```
void init()
{
    response = 0;
    transmit_ready = 1;

    IAP_PGM();

    use_external_clock();

    //
    // Use TX Port
    //

    ALTSEL |= 0x04;

    //
    // Timer1 Mode2
    //
```

Area: CODE Address: 0x0

```
00000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000010 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000020 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000030 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000040 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000060 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000070 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000080 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000090 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```