

A Note on Using C Compiler Package for 740 Family (M3T-ICC740)

When using the C compiler package for the 740 family of MCUs, take note of the following problem:

- With referencing the addresses of functions and calling functions indirectly by pointers
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1. Products and Versions Concerned

C compiler package for 740 family (M3T-ICC740)
V.1.01 Release 00 through V.1.01 Release 02

2. Description

If the address of any function is referenced, the correct value cannot be obtained. In addition, no function calls are made indirectly by pointers.

Example 1:

void func1(void);

```
void func2(void)
{
```

```
    int i;
    unsigned char *cp;
```

```
    cp = (unsigned char *)func1; // Correct address of func1 not
                                assigned to pointer variable cp.
```

```
    for(i=0; i < FUNC1_SIZE; i++)
        buf[i] = *cp++;
```

```
}
```

Example 2:

```
void func1(void);
```

```
void func2(void)
```

```
{
```

```
    void (*fp)(void);
```

```
    fp = func1;
```

```
    (*fp)();    // Indirect function call not made to func1.
```

```
}
```

3. Workaround

To avoid this problem, describe in assembly language the processing of referencing the addresses of functions and making indirect calls to functions.

4. Schedule of Fixing the Problem

Sorry we have no plan to fix this problem.

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