

To our customers,

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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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Renesas Technology Corp.
Customer Support Dept.
April 1, 2003

M16C/80 Series

Selecting minimum

1.0 Abstract

This program selects minimum from 2 values by using a min. select instruction(MIN).

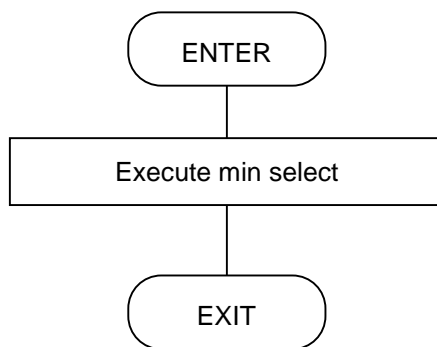
2.0 Introduction

This program selects minimum from 2 values by using a min. select instruction(MIN).

Subroutine name :	-	ROM capacity : 7byte
Interrupt during execution:	Accepted	Number of stacks used : None

Register/memory	Input	Output	Usage condition
R0	-	-	Unused
R1	-	-	Unused
R2	-	-	Unused
R3	-	-	Unused
A0	-	-	Unused
A1	-	-	Unused
W_DATA1	Word data 1	Indeterminate	←
W_DATA2	Word data 2	Result of min select	←
Usage precautions			

3.0 Flowchart



4.0 Programming Code

```

*****
;
; *
;   M16C Program Collection
;   CPU : M16C/80 series
; *
;
*****
;
VramTOP      .EQU    0000400H          ; Declares start address of RAM
VromTOP      .EQU    0FE0000H          ; Declares start address of ROM
              .SECTION    RAM,DATA
              .ORG      VramTOP        ; RAM area
W_DATA1:     .BLKW   1                  ; Source area of min select
W_DATA2:     .BLKW   1                  ; Destination area of min select
;;
;=====
; Title: Selecting minimum
; Outline: Example for using min select instruction
; Input:  ----->                    Output:
; R0()                                R0(Unused)
; R1()                                R1(Unused)
; R2()                                R2(Unused)
; R3()                                R3(Unused)
; A0()                                A0(Unused)
; A1()                                A1(Unused)
; Stack amount used: None
; Notes:
;=====
;
              .SECTION    PROGRAM,CODE
              .ORG      VromTOP        ; ROM area
MIN.W        W_DATA1,W_DATA2          ; Executes min select
;
              .END ;

```

5.0 Reference

MCU Technical Information Homepage

<http://www.infocom.maec.co.jp/indexe.htm>

(or <http://www.mdece.com/> , <http://www.mitsubishichips.com/products/mcu/index.html> or your local Web Site.)

Technical Support

E-mail: support@apl.maec.co.jp

(or your local support E-mail address. A private e-mail address should NOT be used.)

Data Sheet

M16C/80 group

(Use the latest version on the Homepage: <http://www.infocom.maec.co.jp/indexe.htm>)

User's Manual

M16C/80 group

(Use the latest version on the Homepage: <http://www.infocom.maec.co.jp/indexe.htm>)

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