



Richard Cebula - IBM HLASM

SHARE Pittsburgh 2014 The PSW - Samples Sessions (16153, 16154, 16155)



Program in error

```

*****
* MY BUGGY PROGRAM
* copyright IBM UK Ltd 2014
*****
        MACRO
&L      MYREGS
&I      SETA  0
.LOOP   ANOP
        AIF   (&I EQ 16).M_EXIT
R&I     EQU   &I,,,,GR32
GR&I    EQU   &I,,,,GR64
&I      SETA  &I+1
        AGO   .LOOP
.M_EXIT ANOP
        MEND
*
* MAIN PROGRAM STARTS HERE
*
EX1     CSECT
EX1     AMODE 31
EX1     RMODE 24
* USUAL PROGRAM SETUP
        STM   R14,R12,12(R13)
        LR   R12,0
        USING *,12
* SET RETURN CODE IN REGISTER 15
        L    R15,RET_CODE
* RETURN
        BR   R14
* *****
* END OF PROGRAM
* *****
RET_CODE DC   F'0'
        LTORG ,
        MYREGS ,
        END

```

Program corrected

```

*****
* MY BUGGY PROGRAM
* copyright IBM UK Ltd 2014
*****
        MACRO
&L      MYREGS
&I      SETA  0
.LOOP   ANOP
        AIF   (&I EQ 16).M_EXIT
R&I     EQU   &I,,,,GR32
GR&I    EQU   &I,,,,GR64
&I      SETA  &I+1
        AGO   .LOOP
.M_EXIT ANOP
        MEND
*
* MAIN PROGRAM STARTS HERE
*
EX1     CSECT
EX1     AMODE 31
EX1     RMODE 24
* USUAL PROGRAM SETUP
        STM   R14,R12,12(R13)
        BALR R12,0
        USING *,12
* SET RETURN CODE IN REGISTER 15
        L     R15,RET_CODE
* RETURN
        BR   R14
* *****
* END OF PROGRAM
* *****
RET_CODE DC   F'0'
        LTORG ,
        MYREGS ,
        END

```