



ASLREGS

Program Information

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1 Overview

The program, **ASLREGS**, is a simple assembler program that will display the contents of the registers in the calling program. That's it. That is all it does!

The main reason for writing the program was to remove the need to use SNAP to see the contents of registers. **ASLREGS** will not dump the storage pointed to by registers, it will simply list the register contents.

The list will be written in the job log of the job executing the calling program.

It is intended to only be used in development and should be removed before rolling code into production.

1.1 Available Parameters

No parameters are needed by **ASLREGS** and if any are passed they will be ignored.

1.2 Called Programs:

None

1.3 IBM macros used:

STORAGE WTO

1.4 User macros used:

HEXPRINT

1.5 User DSECTS:

None

1.6 Assembled User Values

There are no user values to be assembled before using **ASLREGS**. If you want to change the WTO routing and/or descriptor codes, you should change the source code appropriately and re-assemble **ASLREGS**.

2 Installation Procedure

2.1 From XMI File

The XMI (or XMIT) file is in IBM TSO TRANSMIT format and **must** be transferred to z/OS™ as a sequential, fixed blocked, 80 byte, BINARY file. The disk space requirement for the file is approximately 19 tracks of 3390 disk when blocked at 27920.

The FTP process (if performed in a 3270 emulator) must be performed in TSO READY mode or in option 6 of ISPF™.

The dataset name used as input for the TSO TRANSMIT was ABBYDALE.**ASLREGS**.PDS. Unless this is changed by the TSO RECEIVE (Please refer to the IBM RECEIVE command for details on the use of this TSO command) command it will be the name of the dataset created by the RECEIVE command.

Once this dataset has been RECEIVED you will need to execute the UNPACK member. This will unpack all the TRANSMITTED datasets. You will have the option of changing the high-level qualifier for the datasets to be created.

The UPACK member should unpack four datasets. These are:

<i>Hlq</i> .ASLREGS.JCL	Contains the JCL procedure for assembling ASLREGS . It also contains the JCL for running ASLREGS and the JCL for assembling the programs
<i>Hlq</i> .ASLREGS.LOADLIB	Contains the pre-assembled load modules ASLREGS . This is a 'run ready' version of the program.
<i>Hlq</i> .ASLREGS.MACLIB	Contains the HEXPRINT macro.
<i>Hlq</i> .ASLREGS.SOURCE	Contains the source code for ASLREGS .

:

Once the ABBYDALE.**ASLREGS**.PDS dataset has been received please refer to the \$\$INSTAL member to complete the installation.

A copy of this document is also available in the **ASLREGS**.PDS dataset. This should be transferred to a Windows system as a binary file and saved as a .PDF file.

2.2 From Source File

You can just download the program source code from the website, but remember that the HEXPRINT macro needs to be made available for the assembly to work.

3 Using ASLREGS

ASLREGS is a called program and is **not** intended to run as a standalone program .

ASLREGS is a 31 bit program.

ASLREGS has no required DD cards as it is **not** intended to be run as a standalone program.

ASLREGS uses the routing and descriptor codes shipped by IBM as its default settings for the messages it issues.

ASLREGS will produce a list of the register contents into the job log.

3.1 *Required JCL for ASLREGS*

The program has no JCL requirements as it is not designed to be run as a standalone program, however, **ASLREGS** should reside in a load library that is accessible to the calling program.

3.2 *Calling ASLREGS*

ASLREGS can be called using standard IBM calling protocols. i.e. LINK or CALL.

It is ill advised to use XCTL, however, it will work but it will terminate your program when **ASLREGS** is complete.

3.3 Sample Output

The text below is a sample of the output created using the following code in the **calling** program:

```
LA      R0,250
LA      R1,4
LA      R2,16
LA      R3,69
LA      R5,80
LINK   EP=ASLREGS
```

This would produce the following in the JOBLOG of the job that executes the calling program:

```
08.53.22 JOB08850 +ASLREG02I 000000FA = R0
08.53.23 JOB08850 +ASLREG02I 00000004 = R1
08.53.23 JOB08850 +ASLREG02I 00000010 = R2
08.53.23 JOB08850 +ASLREG02I 00000045 = R3
08.53.23 JOB08850 +ASLREG02I 008D79B0 = R4
08.53.23 JOB08850 +ASLREG02I 00000050 = R5
08.53.23 JOB08850 +ASLREG02I 008C2FE0 = R6
08.53.23 JOB08850 +ASLREG02I FD000000 = R7
08.53.23 JOB08850 +ASLREG02I 008FC018 = R8
08.53.23 JOB08850 +ASLREG02I 008CBCC8 = R9
08.53.23 JOB08850 +ASLREG02I 0000008F = R10
08.53.23 JOB08850 +ASLREG02I F3501E50 = R11
08.53.23 JOB08850 +ASLREG02I 09E80000 = R12
08.53.23 JOB08850 +ASLREG02I 0000E3C5 = R13
08.53.23 JOB08850 +ASLREG02I 80FE1508 = R14
08.53.23 JOB08850 +ASLREG02I 9E5009E8 = R15
```


4 Messages

ASLREG01E

ASLREG01E - Storage obtain failed. Abend S0C3

Meaning

The program was unable to obtain the storage needed to execute. (The program only uses 86 bytes of storage.)

Corrective Action

Increase the region size and rerun the job. If the issue continues, contact your System programmer.

ASLREG02I

ASLREG02I - xxxxxxxx = Ryy

Meaning

These messages (16 of them) display the contents of the registers of the calling program in the order R0-R15.

xxxxxxx will be replaced by the value in the pertinent register.

yy will denote the register being displayed.

Corrective Action

No action is required.

5 Summary of Amendments

Date	Version	Fix Id.	Comment
15th April 2025	2.0	n/a	Release version.
5 th August 1997	1.0	n/a	Initial program written

Obtaining Support

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In order to assist us in filtering support emails please specify in the heading of the email the name of the product that you require support on.

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