



# ASLIPVLD

*Program Information*

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## 1 Overview

The program, **ASLIPVLD**, is an assembler program that will take the parameter passed on the JCL EXEC statement check to see if it is a valid IP address format. It can also, optionally, check to see if the port number is valid if one is passed. It will return a condition code depending on the result.

The condition codes that can be returned are:

Condition Code	Meaning
0	IP address is in the correct format.
8	Invalid port number.
16	IP address is in an invalid format.

**ASLIPVLD** has a defined alias of VALIDIP for compatibility reasons at our site and this can be removed if needed.

As distributed **ASLIPVLD** uses a valid port range as being in the range of 1024 to 65535.

If a port number is required to be checked it should be provided within parentheses after the IP address.

i.e. //STEP EXEC PGM=ASLIPVLD, PARM='177.23.24.25 (2349)'

**Note : The fact that there is a valid IP Port number does not mean the port number is free. You need to check with your site network personnel to make sure it is free before assigning it.**

The IP address is only checked for a valid format. No PING nor indeed any any TCPIP command is issued for check availability nor connectivity.

### 1.1 Passed Parameters

If the program detects a MESSAGE DD card in the step it will issue a message describing the issue, if any, via a write to operator in the program log.

**1.2 Called Programs:** *None*      **(Indirectly calls)** *None*

### 1.3 IBM macros used:

DEVTYP	STORAGE
*FREEMAIN	*WTO
*GETMAIN	

An '\*' denotes that these macros are called by the Instream macros

### 1.4 Instream macros used:

BEGIN	WTP
EOJ	

### 1.5 Assembled Program Values

There are no values that need to be changed before assembly is performed.

## 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 fixed blocked 80 byte BINARY file. The disk space requirement for the file is 2 tracks of 3390 disk.

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.ASLIPVLD.LOADLIB. Unless this is changed by the TSO RECEIVE command it will be the name of the dataset created by the RECEIVE command.

### 2.2 By Assembling the Source Code

To assemble **ASLIPVLD** the source code must be saved in a partitioned dataset and assembled using High Level Assembler. (ASMA90).

It should be linked using `LIST,LET,NCAL,MAP` LOADER options.

### 2.2.1 Sample Assembly Job

The following is a sample assemble and link JCL the can be used to assemble **ASLIPVLD**

```
//STEP1      EXEC PGM=ASMA90,PARM='OBJECT,NODECK',REGION=1024K
//SYSPRINT  DD   SYSOUT=*
//SYSLIB     DD   DSN=SYS1.MACLIB,DISP=SHR
//          DD   DSN=SYS1.AMODGEN,DISP=SHR
//SYSUT1     DD   SPACE=(CYL,(2,1)),UNIT=SYSDA,DSN=&&WRK1
//SYSLIN     DD   DSN=&&WRK5,UNIT=SYSDA,SPACE=(CYL,(2,1)),
//                  DCB=(RECFM=FB,BLKSIZE=3200,LRECL=80),DISP=(,PASS)
//SYSIN      DD   DSN=your.input.pds(ASLIPVLD),DISP=SHR
//LKED1      EXEC PGM=IEWL,PARM='LIST,LET,NCAL,MAP',COND=(4,LT)
//SYSLMOD   DD   DSN=your.MESSAGE.load.library(ASLIPVLD),DISP=SHR
//SYSPRINT  DD   SYSOUT=*
//SYSLIN     DD   DSN=&&WRK5,DISP=(OLD,DELETE)
```

### 3 Using ASLIPVLD

The program, **ASLIPVLD**, has no other function than to write out the contents of the passed parameter into an MESSAGE dataset as defined on the MESSAGE DD card.

It will, if required, add a continuation character into column 72 and it can also fold the parameter string into upper case if desired.

#### 3.1 Sample JCL for ASLIPVLD

```
1 //Jobname JOB ..... .
2 //stepname EXEC PGM=ASLIPVLD,PARM='parm'
3 //STEPLIB DD DSN=your.load.library,DISP=SHR
4 //MESSAGE DD DUMMY
```

JCL card	Required	Use
1	Yes	JOBCARD (Tailor to your site standards)
2	Yes	EXEC card. 1 parameter <b>must</b> be passed to this program. This parameter will be written to the dataset defined by the MESSAGE DD Card
3	Yes	This is the library where <b>ASLIPVLD</b> is located. The STEPLIB concatenation can only be removed if the module resides in LNKLST libraries.
4	Yes	The MESSAGE DD, if present, will force <b>ASLIPVLD</b> to display any error messages.

## 4 Messages

### **ASLIP01E**

**ASLIP01E - Passed IP address too long.**

#### **Meaning**

The IP address passed to the program is invalid. It is too long to be a valid IP address.

A condition code of 16 will be returned for this error.

#### **Corrective Action**

Correct the error by passing a valid length IP address and rerun.

### **ASLIP02E**

**ASLIP02E - Passed IP address too short.**

#### **Meaning**

The IP address passed to the program is invalid. It is too short to be a valid IP address.

A condition code of 16 will be returned for this error.

#### **Corrective Action**

Correct the error by passing a valid length IP address and rerun.

### **ASLIP03E**

**ASLIP03E - Invalid Character Detected.**

#### **Meaning**

The IP address passed contains an invalid character. Only numbers are permitted.

A condition code of 16 will be returned for this error.

#### **Corrective Action**

Correct the error by ensuring that only numeric values or periods are in the parameter and rerun the job.

***ASLIP04E*****ASLIP04E - Invalid Port format.****Meaning**

The port number passed is in an invalid format. Only numbers are permitted.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the format of the port number and rerun.

***ASLIP05E*****ASLIP05E - No end bracket for port.****Meaning**

The port number that was passed has no closing bracket.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the error by adding a closing bracket to the port number and rerun.

***ASLIP06E*****ASLIP06E - Invalid Numeric in Port.****Meaning**

The port number passed contains invalid characters. Only numbers are permitted.

A condition code of 16 will be returned for this error.

**Corrective Action**

Make sure that the port number passed contains only numeric characters.

***ASLIP07E***

**ASLIP07E - Invalid Port range - Too high.**

**Meaning**

The port number passed is higher than 65535.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the port number and rerun.

***ASLIP08E***

**ASLIP08E - Invalid Port range - Too low.**

**Meaning**

The port number passed is lower than 1024.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the error by adding a closing bracket to the port number and rerun.

***ASLIP09E***

**ASLIP09E - Invalid length in IP address.**

**Meaning**

The port number passed is an invalid length.

A condition code of 16 will be returned for this error.

**Corrective Action**

Make sure that the port number is 4 or 5 numeric characters in length and rerun.

***ASLIP10E*****ASLIP10E - Invalid IP Address > 255.****Meaning**

An octet within the IP address is higher than 255. They must be less than this.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the octet in error and retry the job.

***ASLIP11E*****ASLIP11E - Invalid IP Address - Zero first level.****Meaning**

The pass IP address cannot start with a zero octet.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the octet in error and retry the job.

***ASLIP12E*****ASLIP12E - Too many dots in address.****Meaning**

The IP address contains too many periods. It should contain only 3 dots.

A condition code of 16 will be returned for this error.

**Corrective Action**

Correct the passed IP address and then rerun the job.

## Summary of Amendments

Date	Version	Fix Id.	Comment
18 <sup>th</sup> July 2021	1.08	n/a	Initial program written.

## Obtaining Support

Support for, comments about and suggestions for enhancements for this product can be obtained from our website :

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or by emailing us at

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