



ASLDATER

Program Information

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1 Overview

The program, **ASLDATER**, is a simple assembler program that fill a passed area with the date and time in printable format. It will also return the 3-character name of the day of the week. If no date is passed, then the current date and time will be used.

The program uses Zeller's Congruence to determine the day of the week.

The data returned is mapped by the **ASLDATE** DSECT.

If you run **ASLDATER** as a standalone program with no passed parameter, then a write to operator is issued displaying the current date and time.

1.1 Available Parameters

ASLDATER can be called by any program, but they must pass a full word area that the address of an area to be used by **ASLDATER**. The area is mapped by the **ASLDATE** DSECT and should be an area that is at least the same size as the length specified by the **ASLDTEL** equate.:

If **ASLDATER** is called as a standalone program, there can be no parameter passed or the program will fail.

The date, if passed, must be in packed format.

If the program is called directly then the only output is a Write To Operator (WTO) that displays the current date and time.

The size of the area to be passed to **ASLDATER** should be obtained by using the value of by the **ASLDTEL** equate in the **ASLDATE** DSECT.

The area returned to the calling program from **ASLDATER** is mapped by the **ASLDATE** DSECT.

The **ASLDATE** DSECT is described as follows:

1.2 ALSDATE Mapping DSECT

Name	Offset	Length	Type	Description
ASLTICK	0	16	4F	A four fullword area that is used for the TIME macro.
ASLTIME	0	4	F	The first fullword contains the binary time value.
ASLSSOBP	4	4	F	SSOB Pointer save area.
ASLDWORD	8	8	D	Double area used as a work area.
ASLPDATE	12	4	F	Packed date to be converted. If 0 the current data is used. The format of this field is '00YYJJJF' it is the Julian date format rather than Gregorian format.
ASLSAVER	16	4	F	Used as a save area by ASLDATER .
ASLSSOBW	20	1	X	Used for SSOB size.
ASL2SIBW	21	1	X	Used for SSIB size.
ASLPFLAG	22	1	C	Flag indicating that a parameter was passed.
ASLSKIPT	23	1	C	Flag indicating that the time is to be processed.
ASLLEAPF	24	1	C	Leap year indicator.
ASLDNAME	25	3	C	The 3-character day name of the date.
ASLDAY	28	4	C	The date in nnTH format.
ASLDD	28	2	C	The day of the month of the passed date.
ASLDDSUF	30	2	C	Suffix of the day of the month of the passed date.
ASLMM	32	2	C	Month number of the passed date.
ASLMNAME	34	9	C	Month name of the passed date.
ASLYEAR	43	4	C	Year of the passed date.
ASLCENT	43	2	C	Century of the passed date.
ASLYY	45	2	C	Year numeric
ASLJUL	47	3	C	Julian date of the passed date.
ASLTTIME	50	8	C	Time in HHMMSSth format
ASLTHOUR	50	2	C	Hour value of the time.
ASLTMINS	52	2	C	Minute value of the time.
ASLTSECS	54	2	C	Second value of the time.
ASLTTHS	56	2	C	Thousandths of seconds of the time.
ASLPAREA	58	9	C	Work area for Unpack used by ASLDATER .
ASLDTEL	Equated value			Length of ASLDATE .

1.3 Called Programs:

None

1.4 IBM macros used:

CVT	DEVTYPE	IEFJESCT	IEFJSSIB
IEFSSOBH	IEFSSREQ	IEFSSVI	STORAGE
TIME	WTO		

1.5 User macros used:

GETPARM

1.6 User DSECTs:

ASLDATE

1.7 Assembled User Values

There are no user values to be assembled before using **ASLDATER**.

2 Installation Procedure

ASLDATER is distributed as object code only. It will come bundled with many of the Abbydale Systems program offerings. The load library containing just **ASLDATER** is available from our website.

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 approximately 2 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.**ASLDATER**.LOADLIB. 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.

3 Using ASLDATER

3.1 From Another Program

3.1.1 Assembler

In order to successfully call **ASLDATER** from within an assembler program you must first acquire the storage area to pass to the program. This area can be above or below the line.

```

COPY ASLDATE
.
.
LA    R1,ASLDTEL           Load length of data into R1
STORAGE OBTAIN,ADDR=(9),SP=0,LENGTH=(R1),LOC=ANY
USING ASLDATE,R9          Address the data DSECT
ST    R9,PARMPASS         Save area address
LINK  EP=ASLDATER,PARAM=PARMPASS Go get date and time
.
.
LA    R1,ASLDTEL
STORAGE RELEASE,LENGTH=(R1),ADDR=(R9)
.
.
PARMPASS DS    F

```

Example of calling ASLDATER

Obviously, this is just a simple example and is not an executable program. It is recommended that you always use the **ASLDATE** mapping DSECT and establish addressability to it to use the fields described earlier in this document.

The above code snippet will return the current date and time.

To convert an existing date you need to move the packed date into the field mapped as **ASLPDATE** in the **ASLDATE** DSECT i.e.

```

COPY ASLDATE
.
.
LA    R1,ASLDTEL           Load length of data into R1
STORAGE OBTAIN,ADDR=(9),SP=0,LENGTH=(R1),LOC=ANY
USING ASLDATE,R9          Address the data DSECT
ST    R9,PARMPASS         Save area address
MVC   ASLPDATE,=F'0022001F' Move 1st Jan into date area
LINK  EP=ASLDATER,PARAM=PARMPASS Go get date and time
.
.
LA    R1,ASLDTEL
STORAGE RELEASE,LENGTH=(R1),ADDR=(R9)
.
.
PARMPASS DS    F

```

3.2 As a Standalone Program

ASLDATER can be executed as a standalone program via JCL or called from another program.

ASLDATER has no required DD cards other than the EXEC and, optionally a STEPLIB DD card if the programs **ASLDATER** is not in the LINKLIST concatenation,

ASLDATER uses the routing and descriptor codes as shipped by IBM as it's default settings for the message it issues.

3.3 Required JCL for ASLDATER

```

1 //jobname JOB
2 //stepname EXEC PGM=ASLDATER
3 //STEPLIB DD DISP=SHR,DSN=your.load.library
4 //DATEABND DD DUMMY

```

JCL card	Required	Use
1	Yes	JOBCARD (Tailor to your site standards)
2	Yes	EXEC card.
3	Yes	This is the library where ASLDATER is located. The STEPLIB can only be removed if the modules reside in LNKLST libraries.
4	No	This DD card can be used to force ASLDATER to abend if it encounters an error. If this card is missing, then ASLDATER will return a condition codes if it encounters an error.

3.4 Condition Codes

ASLDATER can issue the following condition codes providing that there is no DATEABND DD card present:

Code	Meaning
0	Successful completion.
12	An invalid date was passed to ASLDATER .
16	An invalid parameter was passed to ASLDATER .

4 Messages

ASLDAT01E

ASLDAT01E - SUBSYSTEM REQUEST FAILED

Meaning

The call to the master subsystem failed. The program can not continue and it will fail with an SOC3 abend or a condition code of 16 depending on the presence of a DATEABND card.

Corrective Action

Retry the program. If it still fails, contact technical support.

ASLDAT02I

ASLDAT02I – ddd nnTH month yyyy Time hh:mm:ss

Meaning

This is a display of the current date and time. This message is only issued when **ASLDATER** is called as a stand-alone program.

Corrective Action

No action is required. This is just an informational message.

ASLDAT03E

ASLDAT03E - Invalid parameter detected. Abend SOC3

Meaning

An invalid parameter was passed to **ASLDATER** The program will terminate with an SOC3 Abend or a condition code of 16 depending on the presence of a DATEABND card.

Corrective Action

Correct the error and rerun the job.

5 Summary of Amendments

Date	Version	Fix Id.	Comment
28 th May 2022	6.1	n/a	Release version.
30 th August 1999	5.1	F00004	Support added for WTO of current date.
4 th February 1999	3.2	F00003	Corrected error in ASLMM field
2 nd February 1999	3.1	F00002	Y2K support added.
5 th December 1998	2.1	F00001	Added code to validate passed parameters.
17 th October 1998	1.0	n/a	Initial program written

Obtaining Support

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

www.abbydalesystems.com

or by emailing us at

support@abbydalesystems.com

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.

Spam will not be tolerated at this email address.

Where source code is provided for the product, support will be on a 'best efforts' basis. Where the user site has modified the source code, support may entail requesting copies of that sites source code and may result in support being withdrawn if this is not provided.

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