

Job Viewing Statistics**Background**

Sometimes it is useful to know which job output files stored in your OMCS database are actually being viewed by users. Also, how often they are accessed and by whom. OMCS allows you to gather this information. You may activate and inactivate the gathering of job viewing statistics. The gathering of job viewing statistics is initially inactive and you have to activate it. A program is provided allowing you to print job viewing statistics.

Activating (or Inactivating) Job Viewing Statistics

On the OMCS job selection criteria panel, enter the **JSTAT** primary command. The panel shown below is displayed. It shows the current state of job viewing statistics and allows you to modify it.

```
OMCS/V2 Job Statistics Activation
COMMAND ==>>

Enable job usage statistics ==>> Y (Y/N)

Use the CANCEL command to terminate and discard any changes
Use the END command to terminate and save any changes
```

In order to change the state of job viewing statistics you must have update access to the **.PARAM SYSFILE** file in the database.

Operational Considerations

Job viewing statistics are collected and held in OMCS database files. A new file is started each calendar month. These files have a file name of **.JOBSTAT** and a file type like **2003_JUL**.

To successfully gather the statistics, all users must be able to create and update these files. Here is an example OMCS/ACF rule which will grant the necessary access.

```
IF ACCESS(I,X,U,C) /* if any access except delete
FILE(.JOBSTAT *) /* and its a job stats file
THEN ALLOW /* allow it
```

Reporting the Statistics

A batch program, OMCSJBUS, has been provided to generate reports from the data in the job statistics files. This program can be also be used to purge old job statistics. Sample JCL to run the program is shown below. This JCL is also available in the **.ASESAMP** library member **RUNJBUS**.

```
/*-----
/* SAMPLE JCL TO RUN OMCSJBUS - OMCS JOB VIEWING STATISTICS UTILITY
/*
/* TWO PARAMETERS ARE REQUIRED:
/*
/* MONTH RANGE:          E.G. 2011JAN:2011MAR
/*
/* FUNCTION:             JOBSLIST      -OR-
/*                      JOBSBYUSER   -OR-
/*                      JOBSPURGE
/*-----
//JBUS      EXEC PGM=OMCSJBUS,
//  PARM='2010_DEC JOBSLIST @DB=your.database.name'
//STEPLIB DD DISP=SHR,DSN=your.ASELIB
//SYSPRINT DD SYSOUT=*
```

The program requires two parameters, the first is the month range to be processed, the second is a keyword designating what action is to be taken.

The month range may be two months separated by a colon or a single month. The format is flexible and may take one of the following forms:

- YYYY_MMM eg. 2011_APR
- YYYYMMM eg. 2011APR
- MMMYYYY eg. APR2011
- YYYYMM eg. 201104
- THISMONTH meaning the current month
- LASTMONTH meaning the previous month
- a relative month like -1, -2, -3, etc. note that -0 means THISMONTH
- YYYY eg. 2011 which is the equivalent of 2011JAN:2011DEC.

JOBSLIST lists the job names and the total number of users who viewed the job and the total number of times the job was viewed.

JOBSBYUSER is the same as **JOBSLIST** except that the user ids are shown for each job name.

JOBSPURGE deletes the job statistics in the specified month range.

In the sample JCL above, replace *your.database.name* with the dataset name of your OMCS database. A STEPLIB DD statement may not be required at your installation. If required, replace *your.ASELIB* with the dataset name of your OMCS load library. Otherwise, delete the STEPLIB DD statement.

Sample Output

JOBSLIST

```

OMCSJBUS run: 20110419-141444 database: ASE.CLEARWTR.DATABASE level: ASP1166

OMCS Job Viewing Statistics - Sep2010 to Mar2011

Job Name      Users  Accesses
AMF1136A      1      1
AMF1136B      1      1
AMF1645A      1      1
CLEARWTR      3      21
OMCSAOMC      1      2
OMCSWTR4      2      43
PMGENER       2      20
SYSLOG        3      27

Total Jobs=8 Total Users=3 Total Accesses=116
    
```

JOBSBYUSER

```

OMCSJBUS run: 20110419-141309 database: ASE.CLEARWTR.DATABASE level: ASP1166

OMCS Job Viewing Statistics - Sep2010 to Mar2011

Job Name  ---Users  -Accesses  userid--  -accesses  userid--  -accesses  userid--  -accesses
AMF1136A  1          1  PETERM    1
AMF1136B  1          1  PETERM    1
AMF1645A  1          1  PETERM    1
CLEARWTR  3          21  GRAEME    2  PETER      1  PETERM      18
OMCSAOMC  1          2  PETER     2
OMCSWTR4  2          43  PETER     2  PETERM     41
PMGENER   2          20  PETER     4  PETERM     16
SYSLOG    3          27  GRAEME    22  PETER      1  PETERM      4

Total Jobs=8 Total Users=3 Total Accesses=116
    
```

Messages and Codes

Condition Codes

The following condition codes will be set:

- 0 The requested report was produced successfully.
- 4 Unable to produce a report as there are no statistics available for the requested month.
- 16 A severe error occurred. Check the control listing for more information.

Messages

OMCSJ101E there are no job usage statistics to report for *aaa*

Verify that the specified date range was correct.

OMCSJ102E *aaaaaa* is an invalid date – not in YYYYMM or YYYY format

The date *aaaaaa* is numeric but not in an acceptable format. Acceptable formats are a 4 digit year or a 4digit year followed by a 2 digit month eg. 2011 or 201104.

OMCSJ103E date *aaaaaa* is invalid – “*bbb*” is not a valid month name

The date *aaaaaa* is invalid because it does not contain a valid month name. Month names must be JAN, FEB, MAR, etc.

OMCSJ104E “*aaaaaaaa*” is not a valid function

This program only supports JOBSLIST, JOBSBYUSER and JOBSPURGE as valid functions.

OMCSJ105E unable to load program *pppppppp*

The program *pppppppp* could not be loaded. Verify that the correct libraries are allocated to ECPLIB, STEPLIB and/or ISPLLIB.

OMCSJ106E date range *aaaaaa:bbbbbb* is invalid because the from date is later than the to date

In a date range, the from date must always precede the to date.

OMCSJ107E date *aaaaaa* is an invalid relative month – must be format -*nnn*

A relative month must be a minus sign followed by a number eg. -3.

OMCSJ108I job stats file *.JOBSTAT aaaaaaaaa* deleted

The named job stats file has been deleted.

OMCSJ109I job stats file *.JOBSTAT aaaaaaaaa* not deleted – not found

The named job stats file was not deleted because it does not exist in the database.

OMCSJ110E job stats file *.JOBSTAT aaaaaaaaa* not deleted – not authorised

The named job stats file was not deleted because you are not authorised to delete it.

OMCSJ111E job stats file *.JOBSTAT aaaaaaaaa* not deleted – rc=*nn*

The named job stats file was not deleted because the DBERASE failed with return code *nn*.

OMCSJ112E invalid date “*aaaaaa*” – cannot determine year and month

The date must be in one of these formats: YYYYMM eg. 201103, YYYYMMM eg. 2011MAR, YYYY_MMM eg. 2011_MAR, MMMYYYY eg. MAR2011, or a relative month like -6 or THISMONTH or LASTMONTH.

End of Document