Report Generator for Hardware Instrumentation Services Data

Overview

Once you have collected Hardware Instrumentation Services (HIS) data, this simple tool is provided to allow you to summarize the HIS data in a meaningful way. This tool is a sample, showing the potential value of HIS sample data.

This document describes how to generate a report from HIS sample data:

1. Download the Report Generator to your workstation.

2. FTP the Report Generator to the OMVS file system on your z/OS system.

```
ftp  xrfmcl
. . .
cd  /u/myid
bin
put HISreport_20101110.pax.Z
```

3. In the OMVS interactive environment, unpax the file

```
== > pax –rzvf HISreport_20101110.pax.Z
```

4. Move to the directory containing the Report Generator for HIS Sample data.

```
== > cd  HISreport
== > ls
@README          HISreport          HISreport_20101110.jar  RUN
```

5. Locate the HIS sample data. Remember the directory (ex. /HIS) and the start of the file name (ex. SYSHIS20100812.181049.000).

```
== > ls -1   /HIS
SYSHIS20100812.181049.000.CNT
SYSHIS20100812.181049.000.MAP
SYSHIS20100812.181049.000.SMP.00
SYSHIS20100812.181049.000.SMP.01
SYSHIS20100812.181049.000.SMP.02
SYSHIS20100812.181049.000.SMP.03
```

6. Run the Report Generator to generate a report for this run. If you only want to look at a particular Home Address Space, you can specify the Home ASID (ex. hasid=3A). If you want a report for the whole system, you can specify hasid=0.

```
== > HISreport  dir=/HIS  run= SYSHIS20100812.181049.000  hasid=3a
HIS Report 1.0.0 - 20101110
*** ^B4 Copyright IBM Corp. 2010 ***

HIS Report: Directory Name  =/HIS
HIS Report: Run Name = SYSHIS20100812.181049.000
HIS Report warning: Overlap in map, remove older module, retain newer module
 add:     Area/ASID=PLPA Module=IGDOPST1, Start=13B32000, End=13D9EEF7
 remove:  Area/ASID=PLPA Module=IGDICMT0, Start=13B32000, End=13D9EEF7
HIS Report warning: Overlap in map, remove older module, retain newer module
 add:     Area/ASID=PLPA Module=IGDZILLA, Start=13B32000, End=13D9EEF7
 remove:  Area/ASID=PLPA Module=IGDOPST1, Start=13B32000, End=13D9EEF7
HIS Report warning: Overlap in map, remove older module, retain newer module
 add:     Area/ASID=CSA  Module=bbodpcrt, Start=1DAB02D0, End=1DAE6FFF
 remove:  Area/ASID=CSA  Module=bbodpcrt, Start=1DAB02D0, End=1DAE6FFF
HIS Report: Read 58996 records from MAP file, /tmp/HISdata/SYSHIS20100812.181049.000.MAP
HIS Report: Processing sample data in file, /tmp/HISdata/SYSHIS20100812.181049.000.SMP.00
HIS Report: Processing sample data in file, /tmp/HISdata/SYSHIS20100812.181049.000.SMP.01
HIS Report: Processing sample data in file, /tmp/HISdata/SYSHIS20100812.181049.000.SMP.02
HIS Report: Processing sample data in file, /tmp/HISdata/SYSHIS20100812.181049.000.SMP.03
HIS Report: In total, Read 1918876 records.  Found 1888897 samples.  Of these 1888376 were valid
and busy
            2 invalid, 519 in Wait state, 1503 busy samples were DAT off (no matching done)
HIS Report: Generated 851 CSECT records
HIS Report: Wrote 851 records to the output HIS report file, SYSHIS20100812.181049.000.Report
```

7. View the output Report file.

```
== > vi -R  SYSHIS20100812.181049.000.Report
HIS Report 1.0.0 - 20101110
*** ^B4 Copyright IBM Corp. 2010 ***

Report for all Home ASIDs
  SAMPLES   ISAMPLES    CPU %     CPI  PASN  JOBNAME   MODULE     CSECT
  =======   ========    =====     ====  ====  ========  ========   ========
   541851    207906    28.694     2.61  003A  BBOS002S  <NoModule> <NoCSECT>
   137513     13424     7.282    10.24  0000  <COMMON>  <NoModule> <NoCSECT>
   133847     50849     7.088     2.63  0051  BBOS001S  <NoModule> <NoCSECT>
    53355     14224     2.825     3.75  003A  BBOS002S  libj9gc24.so <NoCSECT>
    35627      4052     1.887     8.79  004E  DBTDDBM1  DSNXGRDS   DSNXECP
    31207      4711     1.653     6.62  004E  DBTDDBM1  DSNXGRDS   DSNXERD
    27760      8295     1.470     3.35  004E  DBTDDBM1  DSNXGRDS   DSNXROHB
    25878      6642     1.370     3.90  004E  DBTDDBM1  DSNXGRDS   DSNXERT
    24286      4883     1.286     4.97  0000  <COMMON>  DSNWVSR1   DSNWVSR1
    23644      2684     1.252     8.81  004E  DBTDDBM1  DSNIDM     DSNIOST2
    20639       219     1.093    94.24  003A  BBOS002S  DSNARRS    <NoCSECT>
    20437     10476     1.082     1.95  004E  DBTDDBM1  DSNIDM     DSNIONX2
    19907      4346     1.054     4.58  003A  BBOS002S  DSNAQ6L2   DSNAQ6C5
    19109      3952     1.012     4.84  003A  BBOS002S  libj9vm24.so <NoCSECT>
    17862      3175     0.946     5.63  004E  DBTDDBM1  DSNBBM     DSNB1GET
```