HDINFO

USER'S GUIDE

Version V1R5

Doc : HDINFO-V1R5_UserGuide.doc

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Alain Maneville
Executive I/T Specialist I- BM System z
IBM France

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1. PURPOSE OF THE DOCUMENT.

This document explains how to use the HDINFO Tool.
This tool was preliminary done to helps knowing with a simple command if HiperDispatch® was active in a LPAR.
In V1R5, new information has been added to the tool – you could get these information in different ways and different commands, but with HDINFO you have them in starting a single task or submitting a single JOB.
HDINFO display information only available in z/OS V2R3+.

2. DISCLAIMER OF WARRANTIES:

The following program is sample code created by Alain Maneville - IBM France.
This program is not part of any standard IBM product and is provided to you solely for the purpose of knowing if HiperDispatch is active or not.
The code is provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of such sample code, even if you have been advised of the possibility of such damage
Support : Support will be provided on a "best effort" basis. Send the program output or Dump for an analysis to alain_maneville@fr.ibm.com

3. A BRIEF VIEW OF THE POGRAM.

3.1 The HDINFO Program.

The program HDINFO gives information about the status of HiperDispatch and other useful information in a LPAR.
This program is written in Assembler language.
The program can be run as a Started Task (STC) or as a JES2 BATCH JOB.

3.2 The basic information provided in WTO.

The basic information about the HiperDispatch Status are given as a multiline WTO.

```
================================================================
HDINFO-V1R5 - SYSTEM INFORMATION SUMMARY
================================================================
HIPERDISPATCH=YES
LPARNAME=P05513
RTCapLeadTime=005    - Minutes - IEAOPTxx
Time_To_Cap=14400    - seconds
Time_To_Cap_GR=14400 - seconds
ABSMSUCAPPING=NO
================================================================
HDINFO-V1R5 - SYSTEM SRM INFORMATION 430
================================================================
INITIMP-DP=254    INITIMP-IEAOPT=0
SRM-OUTR=0000 SRM-LOUR=0000 SRM-INQU=0088 SRM-INRQ=0000
SRM-NSTC=0150 SRM-NOMV=0004 SRM-NASC=0000 SRM-NBTC=0000 SRM-NTSO=0001
MT_PROCVIEW=CPU  - MT_THREAD=NO
MT_CPU=99 - MT_zIIP=99
```

3.3 How to run the program.

You have two choices to run the program

3.3.1 As a STC.

You must create a JCL Procedure and put it in a Procedure Library (see example) to run the program as a STC. This is the recommended way.
If your procedure name is (for example) HDINFO, you can in a Sysplex type the following command to have the status of all the LPARs in this Sysplex:

```
RO *ALL,S HDINFO
```

Note : this implies that the procedure name HDINFO is available for all the LPARs in the Sysplex or in a shared Proclib.

3.3.2 As a JES2 BATCH JOB

You must create a JOB Stream to run the program as a JES BTACH JOB (see example).
If you run it this way, you will have others information in **the //SYSPRINT DD** statement as follow

You will have the information provided in the multiline WTO and the following information in the **//SYSPRINT DD statement**

```
================================================================================
HDINFO-V1R5 - SYSTEM INFORMATION SUMMARY
================================================================================
HIPERDISPATCH=YES
HWNAME=P055
LPARNAME=P05513
LPAR ID=13
MIFID=03
SYSPLEX=PORTINR1
TOTAL CPU ONLINE=006
TOTAL GCP IPL   =006
TOTAL IIP IPL   =000
TOTAL AAP IPL   =000
STORAGE ONLINE AT IPL         =065536M
POTENTIAL HIGH STORAGE ADDRESS=065536M
IPL DATE=2018-262
TIME=10:50:52
LOADPARM=A100RDM (A100RDM1)
IODF=00
NUC=01
PRODUCT NAME=z/OS(V02R03M00) PID=5650-ZOS(IBM CORP) MVS-LEVEL=SP7.2.3 (HBB77B0 )
SYSNAME=MVR1     SYSID=MVR1 CPU-MODEL=3906-M02     SERIAL£=35F78
RTCapLeadTime=005    - Minutes - IEAOPTxx
Time_To_Cap=14400    - seconds
Time_To_Cap_GR=14400 - seconds
ABSMSUCAPPING=NO
================================================================================
HDINFO-V1R5 - SYSTEM SRM INFORMATION
================================================================================
INITIMP-DP=254    INITIMP-IEAOPT=0
SRM-OUTR=0000 SRM-LOUR=0000 SRM-INQU=0088 SRM-INRQ=0000
SRM-NSTC=0150 SRM-NOMV=0004 SRM-NASC=0000 SRM-NBTC=0000 SRM-NTSO=0001
MT_PROCVIEW=CPU  - MT_THREAD=NO
MT_CPU=99 - MT_zIIP=99
```

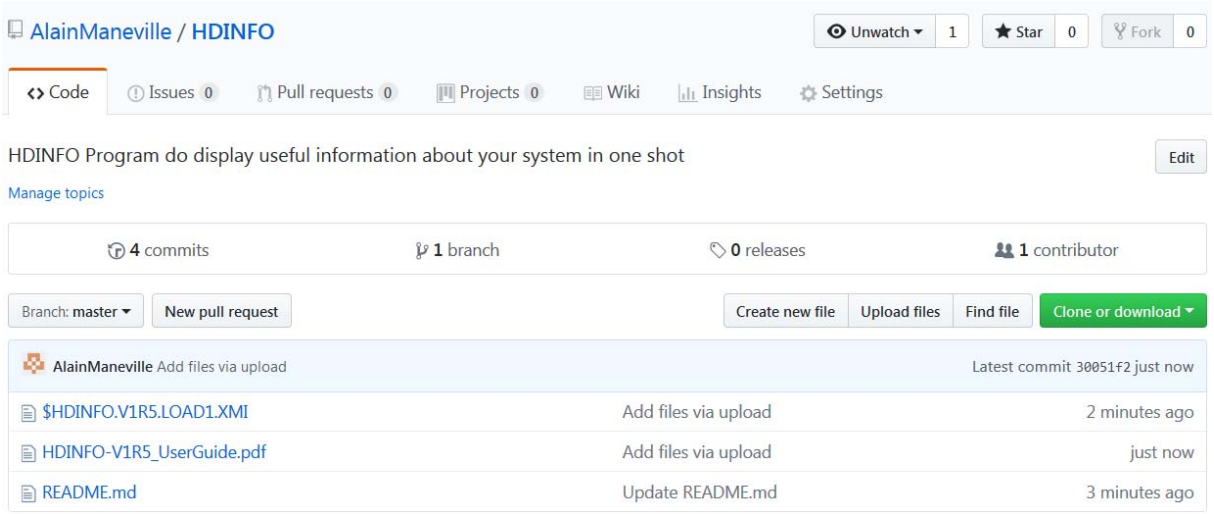
What is new in V1R5 is in bleu.

Note: If you z/OS version is less than z/OS V2R3, you will have the value xxx in these three parameters:

```
RTCapLeadTime=xxx     - Minutes - IEAOPTxx
Time_To_Cap=xxxxx     - seconds
Time_To_Cap_GR=xxxxx  - seconds
```

3.4 How to get the program

Link to GitHub with this URL : https://github.com/AlainManeville/HDINFO



You can download the LOADLIB and the User's Guide

4. PROGRAM INSTALLATION.

4.1 WHAT YOU GET:

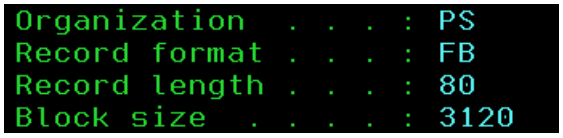
You will get a .rar file named **HDINFOR4.rar**.
It contains the User's guide (what you are currently reading) and a library in XMIT format containing the load module.

4.2 Uploading the LOAD LIBRARY.

When you get the product you will have a Load Module Library in XMIT format named:

MANEVIL.$HDINFO.LOAD1.XMI

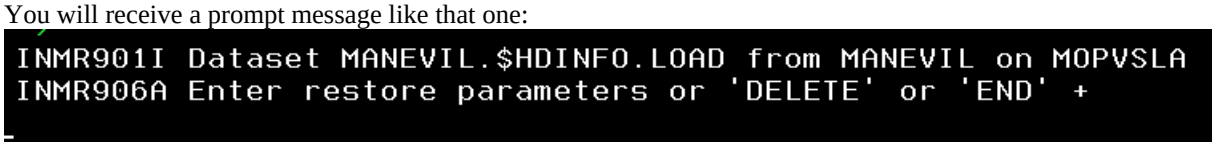
Upload this file in **binary**. I suggest that the target of this uploaded Library is in this format:



Logon to TSO
Type 6 (ISPF Command Shell), then type the following command

```
receive indsn(your.uploaded.file.XMIT')
```

You will receive a prompt message like that one:



at the prompt, type

```
DA('Your.HDINFO.LOAD')
```

The Load Library is now uploaded and ready to use.
Note : This Load Library does not need to be Authorized.

4.3 Creating the JCL for STC.

Here is a sample JCL PROC that you can use after having modified the Load Library:

```
//HDINFO   PROC
//HDINFO   EXEC PGM=HDINFO
//*
//STEPLIB  DD DSN=Your.HDINFO.LOAD,DISP=SHR
//SYSPRINT DD SYSOUT=*
//         PEND
```

Then you have to put this JCL in a **PROCLIB**.

4.4 Creating the JCL for BATCH JOB.

```
//MANEVILA JOB (D732,8003),IBM,CLASS=A,MSGLEVEL=(1,1),MSGCLASS=A,
//  REGION=0M
//HDINFO   EXEC PGM=HDINFO
//*
//STEPLIB  DD DSN= Your.HDINFO.LOAD,DISP=SHR
//SYSPRINT DD SYSOUT=*
```

5. FAQ.

5.1 FAQ

Q1 – Why do I have more informations when I run the program in BATCH than in STC.
R1 – The initial purpose on the program is to have a quick way to get the status of HiperDispatch. You have this information in a WTO. My goal was not to "spill" the SYSLOG with too much informations. That is why I have limited the WTO.
But, If I have some customer's demand, I can expand the WTO with all the information that you have in BATCH mode.

END OF DOCUMENT - HDINFO-V1R5_Userguide.Doc