Intelligent Resource Director

WLM Lpar Cluster Management

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DCM Hardware/Software Requirements

► Warning!

 DCM is very dependent on self description data returned by DASD control units in order to understand the connectivity view of the hardware configuration. There has been a problem confirmed for some non-IBM DASD where the information was not consistent in its presentation.

Before using DCM with non-IBM vendor DASD, please contact your vendor for their specific DCM service requirements.

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Definitions if system is not fully utilized: LPARs can have higher share of processor resources if no capping has been defined (same as today)

• if system is highly utilized: all partitions use their weight

Example:

- LPAR Cluster = PARTA + PARTC = Weight 200
- PARTA = Weighting Range from 50 to 180
- PARTC = Weighting Range from 20 to 150
- Absolute share of processor capacity depends on the system utilization caused by PARTB and PARTD

Logical Partition	Active	WLM Managed	Initial Processing Weight	Minimum Processing Weight	Maximum Processing Weight
PARTA	Yes	Yes	100	50	200
PARTB	Yes	No	100		
PARTC	Yes	Yes	100	20	150
PARTD	Yes	No	50		
PARTE	No	No	5		

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Notes

- Weight management must be enabled
- Enabled or disabled in IEAOPTxx member of parmlib • VARYCPU=<u>YES</u>/NO
- New construct Equivalent Physical CPs
 Minimal number of logical CPs required for a partition
- WLM does not manage any CPU with special features
 Crypto
 Integrated Linux Facility (ILF)
- WLM keeps the appropriate number of CPUs enabled for I/O interrupts
- WLM and Operator Actions do not interfere ...
 Operator cannot vary a CPU online that was taken offline by WLM
 - WLM will not vary a CPU online that was taken offline by the operator

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