

Cristie Nordic is an independent and management owned company within the Cristie Group (which has operations in England and Germany). We are a Nordic distributor of CBMR/TBMR. This is done directly and in cooperation with IBM, which has integrated the product into its Tivoli TSM catalog. Cristie Nordic has also developed a collection of tools for the TSM environment that are collected under the name Utility Box. One of the product are CPU2TSM.

## Utilitybox - CPU2TSM

This tool detects and informs the user in a simple way how many physical, and virtual CPUs are available in the backup environment.

CPU2TSM, is a product that facilitates the inventory of licenses by providing an updated view of the installed CPU environment. CPU2TSM, is a PVU reporting tool. The CPU Counter provides simple information on how many physical CPUs there are in your environment. You can also view the number of virtual CPUs in your network and number of cores and threads. If you are a Tivoli Storage Manager (TSM) user, you can use this tool to list your servers with ease and see how many PVUs you actually need before your next round of procurements. A draft of the report is presented below:

Host	CPU name	Threads/cores	CPUs	Host type	cores	value	pvu
Server 1	UltraSPARC-T1	32	1	zone	8	30	0
Server 2	UltraSPARC-III	1	1	zone	1	100	0
Server 3	UltraSPARC-III	1	1	zone	1	100	0
Server 4	UltraSPARC-III	1	1	global zone	1	100	100
Server 5	UltraSPARC-T1	32	1	global zone	8	30	240
Server 6	UltraSPARC-III	4	4	zone	4	30	0
Server 7	Intel (R) Xeon (TM) CPU E7440 @ 2.40GHz	2	1	virtual	2	100	0
Server 8	Intel (R) Xeon (TM) CPU 3.60GHz	2	1	physical	2	100	200
Server 9	Intel (R) Xeon (TM) CPU E7440 @ 2.40GHz	2	1	virtual	2	100	0
Server 10	Intel (R) Xeon (TM) CPU E7440 @ 2.40GHz	1	1	virtual	1	100	0
Server 11	Intel(R) Xeon(R) CPU E5345 @ 2.33GHz	8	1	physical	8	50	400
Server 12	AuthenticAMD AMD Opteron(tm) Processor 275	1	1	virtual	1	100	0
Server 13	Intel(R) Xeon(R) CPU E7440 @ 2.40GHz	1	1	virtual	1	50	0
Server 14	AuthenticAMD AMD Opteron(tm) Processor 275	1	1	virtual	1	100	0
Server 15	AuthenticAMD AMD Opteron(tm) Processor 250	1	1	physical	1	100	100
Server 16	Intel(R) Xeon(R) CPU E5430 @ 2.66GHz	4	1	physical	4	50	200

## Processor Value Unit—PVU

A Processor Value Unit (PVU) is a unit of measure used to differentiate licensing of middleware on distributed processor technologies. IBM continues to define a processor, for purpose of PVU-based licensing, to be each processor core on a chip. Each program has a unique price per PVU.

CPU2TSM Supported Platforms	TSM API 5.4	TSM API 5.5	TSM API 6.1/6.2
Windows 2000 Server (x86)	x		
Windows Server 2003 (x86/x64)	x	x	x
Windows Server 2008 (x86/x64)	x	x	x
Windows Vista (x86/x64)		x	x
Windows 7 (x86/x64)			x
AIX 5.x - 6.x	x	x	x
SUN Solaris 9 - 10 on Sparc	x	x	x
Linux kernel 2.6 x86	x	x	x

*Itanium is not supported on any platforms*