

# z/VSE V4 and MWLC **Software Pricing**

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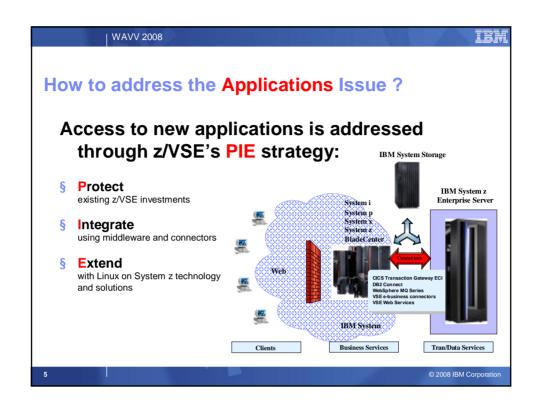
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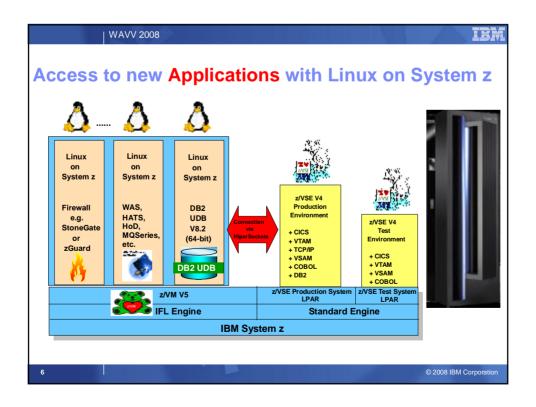
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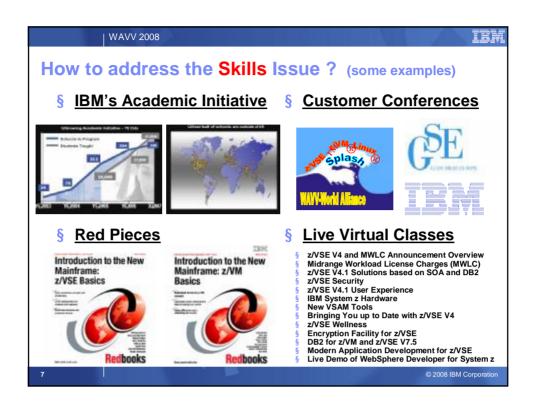
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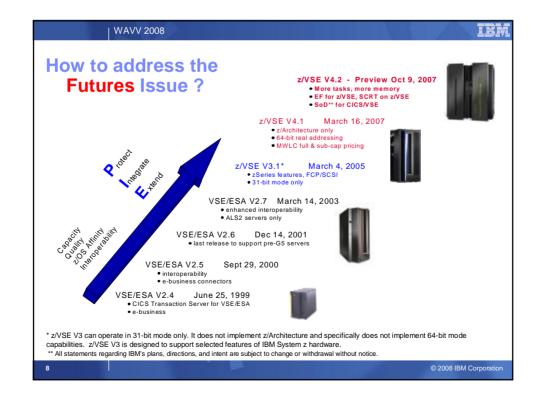


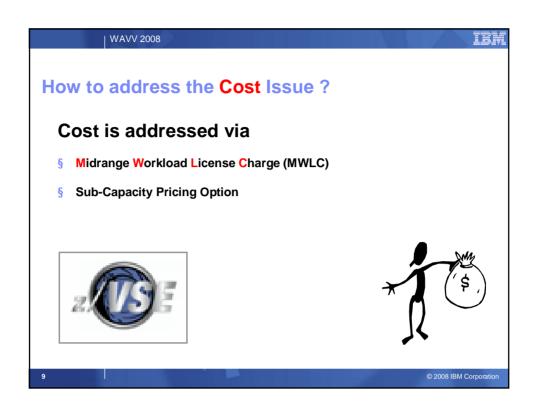






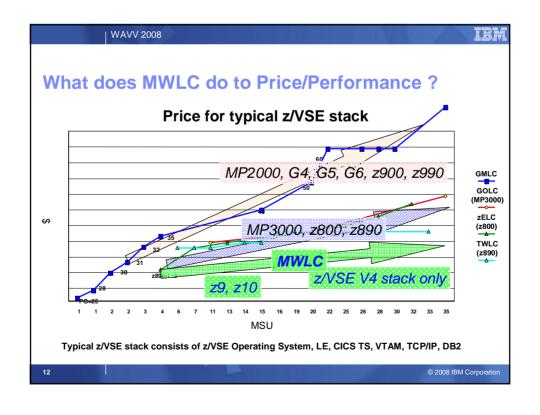












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# Midrange Workload License Charges for z9 BC\*

for Sub-Capacity Eligible Products Midrange Workload License Charges (MWLC)

for non-Sub-Capacity Eligible Products Tiered EWLC Price Structure (TWLC)

Full Cap mode - use rated MSU capacity

Sub-Cap mode - use MSU values from

### **MWLC Price Structure** exclusive to z9 BC, z9 EC, z10 EC

base	3 MSUs
Level 1	4 - 17 MSUs
Level 2	18 - 30 MSUs
Level 3	31 - 45 MSUs
Level 4	46 - 87 MSUs
Level 5	88 - 175 MSUs
Level 6	176 - 260 MSUs
Level 7	261+ MSUs

**TWLC Price Structure\*\*** exclusive to z9 BC and z890

Tier A	1 - 11 MSUs
Tier B	12 - 15 MSUs
Tier C	16 - 40 MSUs
Tier D	41 - 75 MSUs
Tier E	76 - 1500 MSUs
Tier F	1501+ MSUs

flat monthly pricing - select the tier based on the MSU rating of your box



cumulative monthly pricing

e monthly pricing

\* The z9 BC Model A01 is not eligible for MWLC, it is priced using zELC.

\*\* z9 EC and z10 EC models do not use TWLC, they use Flat Workload License Charges (FWLC) when applicable.

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# **Example: MWLC Price Points**

# **TWLC**

# - MWLC -

Product [MSU]	TWLC Tier A 1-11	Base 3	Level 1 4-17	Level 2 18-30	Level 3 31-45	Level 4 46-87	Level 5 88-175	Level 6 176-260	Level 7 261+
VSE Central Function V8	4162	2081	63	21	21	21	21	21	21
CICS TS if used w/ z/VSE V4	2534	1800	54	18	18	18	18	18	18

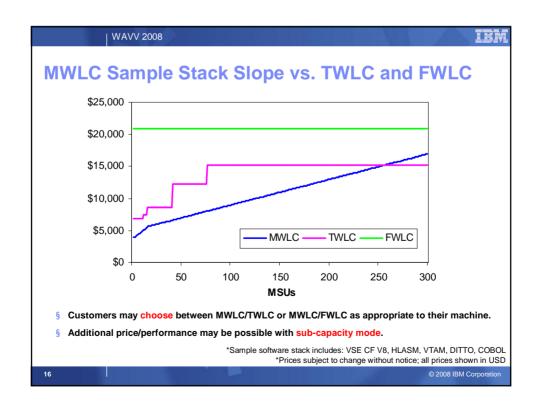
### **Examples:**

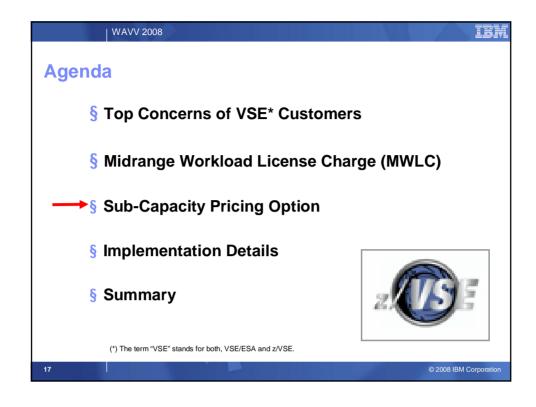
z9 BC D02, 16 MSUs (~ 115 MIPS): Cost of CICS TS on z/VSE V4 = Base + (13 \* Level1) = \$2.502,-z9 BC I01, 21 MSUs (~ 150 MIPS): Cost of VSE CF V8 = Base + (14 \* Level1) + (4 \* Level2) = \$3.047,--

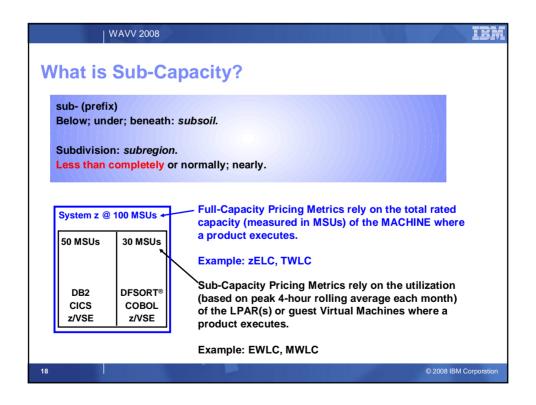
\*Prices subject to change without notice; all prices shown in USD as of Jan 2007.

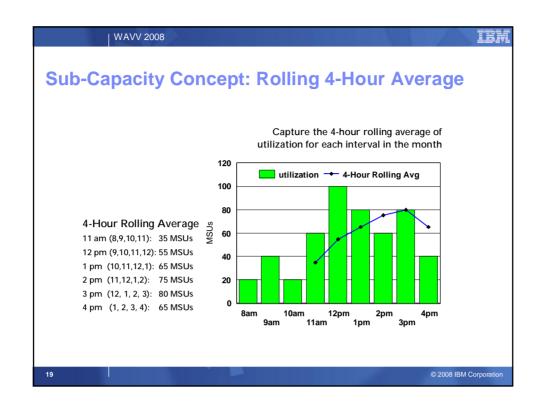
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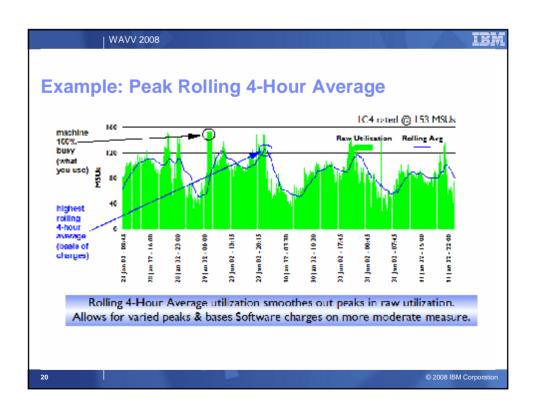
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VSE-related Products	Product ID	Product Name
	5686CF8	z/VSE V4.1
eligible for MWLC	5648054	CICS TS for VSE/ESA
	5648099	DITTO/ESA® FOR VSE
1. z/VSE V4	5686A04	TCP/IP NFS
	5686A04	TCP/IP Application Pak
2. CICS TS for VSE/ESA	5686A04	TCP/IP GPS
3. ACF/VTAM® V4 VSE/ESA	5686065	ACF/VTAM® V4 VSE CInt/Serv
4 TOD/ID ( )/OF/FO A	5686065 5686065	ACF/VTAM V4 VSE Inter Ent  ACF/VTAM V4 VSF MultiDomain
4. TCP/IP for VSE/ESA	5686065	IBM COBOL VSF/FSA Full Func
5. DB2 Server for VSE & VM	5686068	IBM COBOL VSE/ESA Alt Func
6. DL/I DOS/VS	5696234	High Lvl Assem. VSE Only
	5697F42	DB2 Server for VSE&VM
7. IBM Cobol VSE/ESA	5697F42	DB2 QMF for VM/VSE
8. IBM PL/1 for VSE/ESA	5697F42	DB2 QMF for Windows feat of DB2
• • • • • • • • • • • • • • • • • • • •	5697F42	DB2 QMF for Windows feat of QMF
9. C/VSE	5697F42	DB2 Control Center for VM/VSE
10. High LvI Ass. VSE & VM/ESA®	5746SM3	IBM DFSORT/VSE® V3
10. High LVI ASS. VSE & VIII/ESA	5686A06	MQSERIES® VSE/ESA
11. WebSphere MQSERIES® VSE/ESA	5746XX1	DL/I Data Language
12. DITTO/ESA® for VSE	5686A01	C/VSE Alt. Function  C/VSE Full Function
12. DITTO/E3A" IUI V3E	5686A01 5686069	IBM PL/LVSF/FSA Full Func
13. IBM DFSORT /VSE® V3	5686069	IBM PL/I VSE/ESA FUII FUNC
	3000009	IDIVI PL/I VSE/ESA AIL FUIIC
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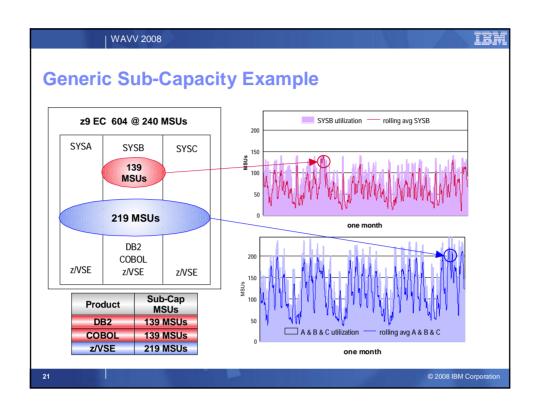


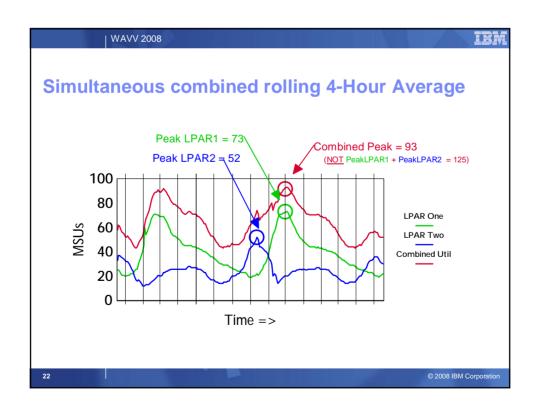






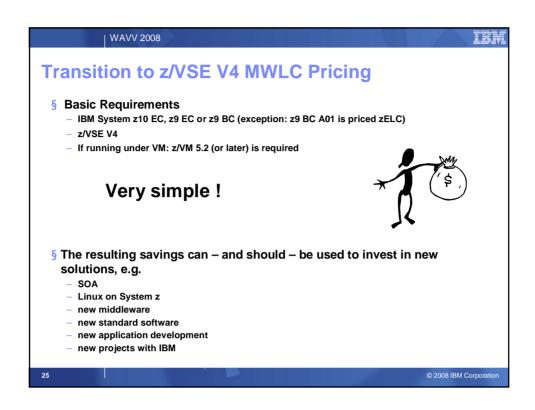


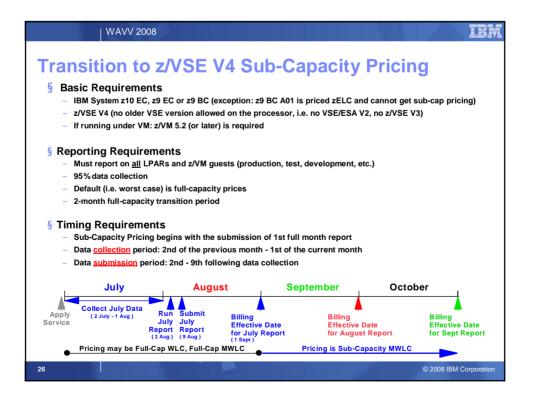




# WAVV 2008 **Benefits of Sub-Capacity Pricing** § Disconnect HW growth from SW charges for sub-capacity eligible products Allows you to grow hardware capacity independently of software capacity e.g. upgrade server and only pay for software based on the utilized portion of the server - Grow into excess hardware capacity gradually as needed with a 1 MSU level of granularity Spike into "spare" capacity without incurring software charges - Manage utilization without having to turn engines on and off § Grow an LPAR without affecting software in other LPARs Isolate products in certain LPARs to reduce software costs (optional) - Reduce LPAR utilization to reduce software costs (optional) Add capacity to grow your production LPARs without impacting your test and/or development LPARs § Align software charges with utilization Pay based on highest rolling 4-hour average utilization each month, not peak utilization - Sub-Capacity Monitoring Tool manages measurement and reporting Software charges increased/decreased based on variations in utilization







# Capacity Measurement Tool (CMT) § Announced and available with z/VSE V4.1 since March 16, 2007 § Can be activated on z9 and z10 servers only § Requires z/Architecture mode è z/VSE V4.1 (and later) only § Collects data for LPARs and/or guest machines running under z/VM 5.2 (or later) § Implemented as a new z/VSE V4 system task — periodically measures CPU usage and calculates MSUs — measurement interval is every 30 minutes

calculates the rolling 4-hour average
 creates dataset with SCRT89 records

§ Output from CMT is input for SCRT



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# Sub-Capacity Reporting Tool (SCRT) § Announced with preview announcement of z/VSE V4.2 on Oct 9, 2007 § Available with z/VSE V4.1 (and later) since Oct 10, 2007 § Requires SCRT V14.2 (available since Oct 10, 2007) on z/VSE or z/OS § Analyzes SCRT89 records as produced by CMT with z/VSE V4 § Also analyzes SMF70 and SMF89 records as produced by z/OS § Customers must generate their SCRT report on a monthly base § Customers must send their SCRT report to IBM on a monthly base § Output from SCRT is a report, similar to a spreadsheet report

