

ANY hardware upgrade we look at starts with the potential money savings we might see. If it doesn't save us money, we don't look at it.

OSA fiber cards now use LC Duplex connectors rather than SC Duplex

After the install, we had to adjust our system time-of-day using ZONE statements due to the way the HMC sets the time.

All IOCPs are LPARs now

IOCP uses PCHID parameters. This is the physical location of the card in the processor and are supplied with the CHPID Mapping Tool report from your Business Partner.

```
* -----  
* OSA FIBER PORT 02  
* -----  
CHPID PATH=01,TYPE=OSD,PCHID=111,PARTITION=(AJDCPRD)  
CNTLUNIT CUNUMBR=0430,PATH=(01),UNIT=OSA  
IODEVICE ADDRESS=(0430,15),CUNUMBR=(0430),UNIT=OSA,UNITADD=00  
* -----  
* OSA ETHERNET PORT 01 (ICC)  
* -----  
CHPID PATH=02,TYPE=OSC,PCHID=100,PARTITION=(AJDCPRD)  
CNTLUNIT CUNUMBR=0440,PATH=(02),UNIT=OSC  
IODEVICE ADDRESS=(0440,15),CUNUMBR=(0440),UNIT=3270,MODEL=X  
* -----
```

Very easy install since we were already on a Z box. We were already using the small ESCON connectors

Z9 requires 2 30-amp circuits when the Z800 required 20-amp circuits

Z9 has OSA ICC so we were able to remove our 2074

We replaced a 3-engine 499 MIP machine with a 2-engine 526 MIP machine (U02) and performance has been excellent. For example, we tune VSAM files every night and the process consist of an IDCAMS BACKUP, a REPRO to a SD file, a DELETE and DEFINE using the new specifications and a REPRO from the SD file to the new cluster. One

of these jobs went from 13 minutes to 2.5 minutes. That was with no changes to the SHARK. The L2 cache went from 8MB to 40MB and I/O Bandwidth went from 6 GB to 43 GB. These increases have to be goodness and it appears to have helped us.

We see peaks of 80% CPU utilization during peak processing times but these are very short and the average utilization falls between 40% and 60%. I believe the sub-capacity billing is going to make another dramatic difference in our software costs.

Some software vendors use IBM's MSU ratings while some are using Gartner's. IBM rates our U02 at 73 MSUs while Gartner rates it at 85 MSUs. We also found one vendor that had a magic line at 500 MIPs and increased our costs by a small amount when we went to 526 MIPs. None of our OEM software increases were enough to keep us from upgrading to the Z9. Make sure you know what your software vendors will do for you and to you!