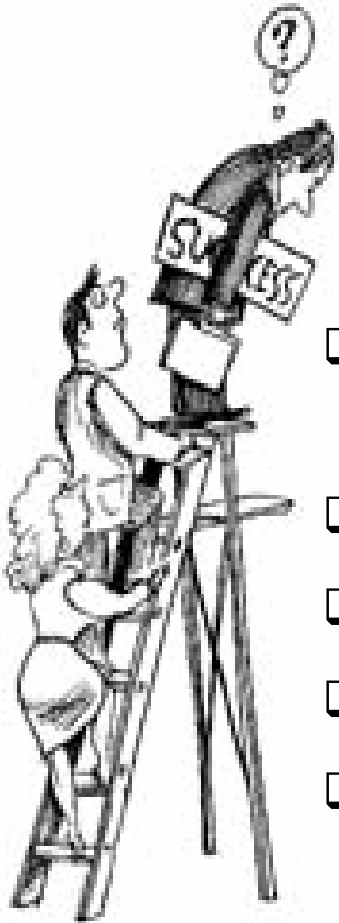


The Discontinuity



Then (~2003)

- ❑ Scaling drove performance
- ❑ Scaling drove down cost
- ❑ Performance constrained
- ❑ Active power dominates
- ❑ Focus on processor performance

Now

- ❑ Innovation drives performance
- ❑ Scaling drives down cost
- ❑ Power constrained
- ❑ Standby power dominates
- ❑ Focus on system performance