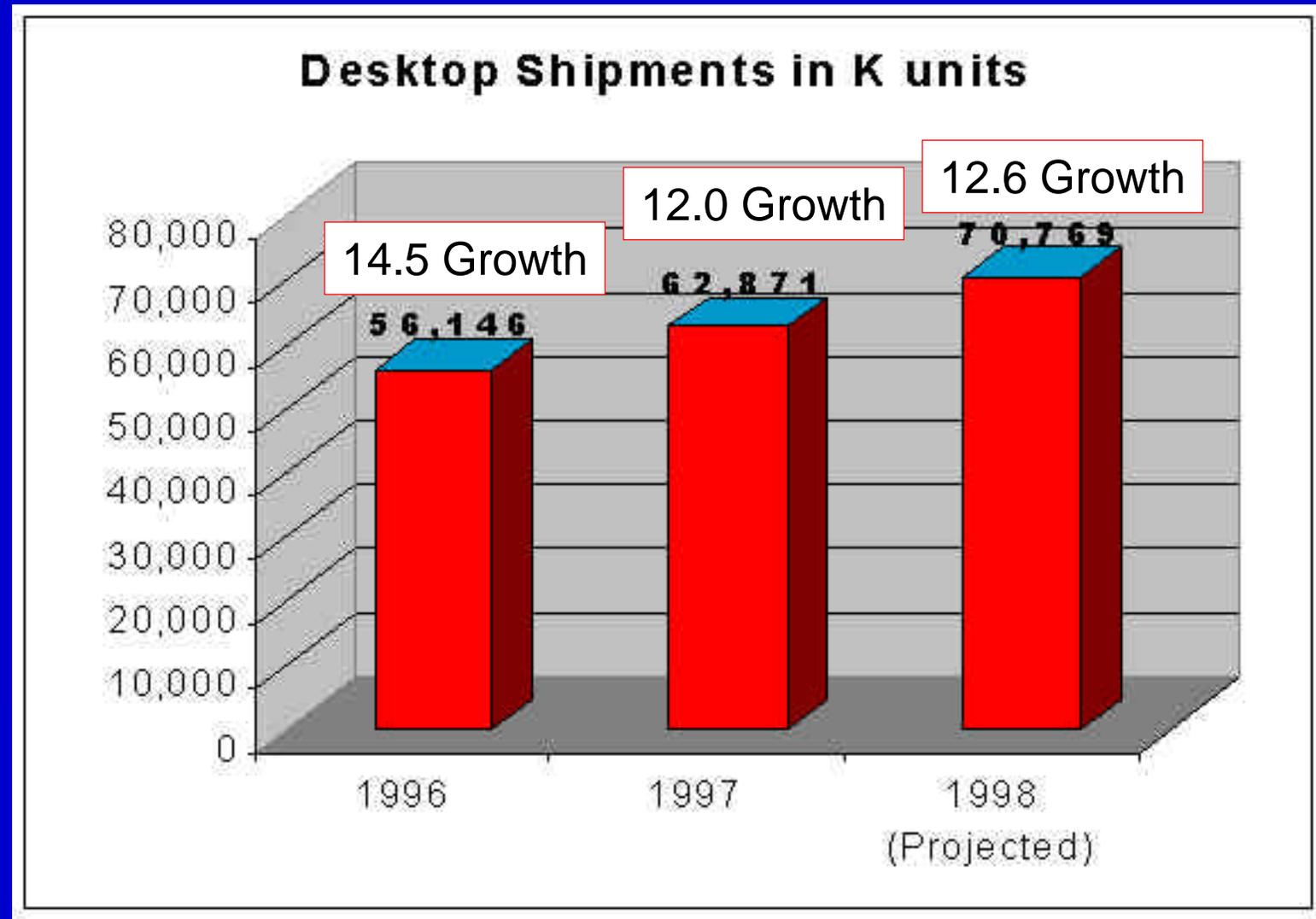


Notebook OEM Expectations for SBS Technology

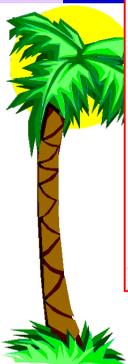
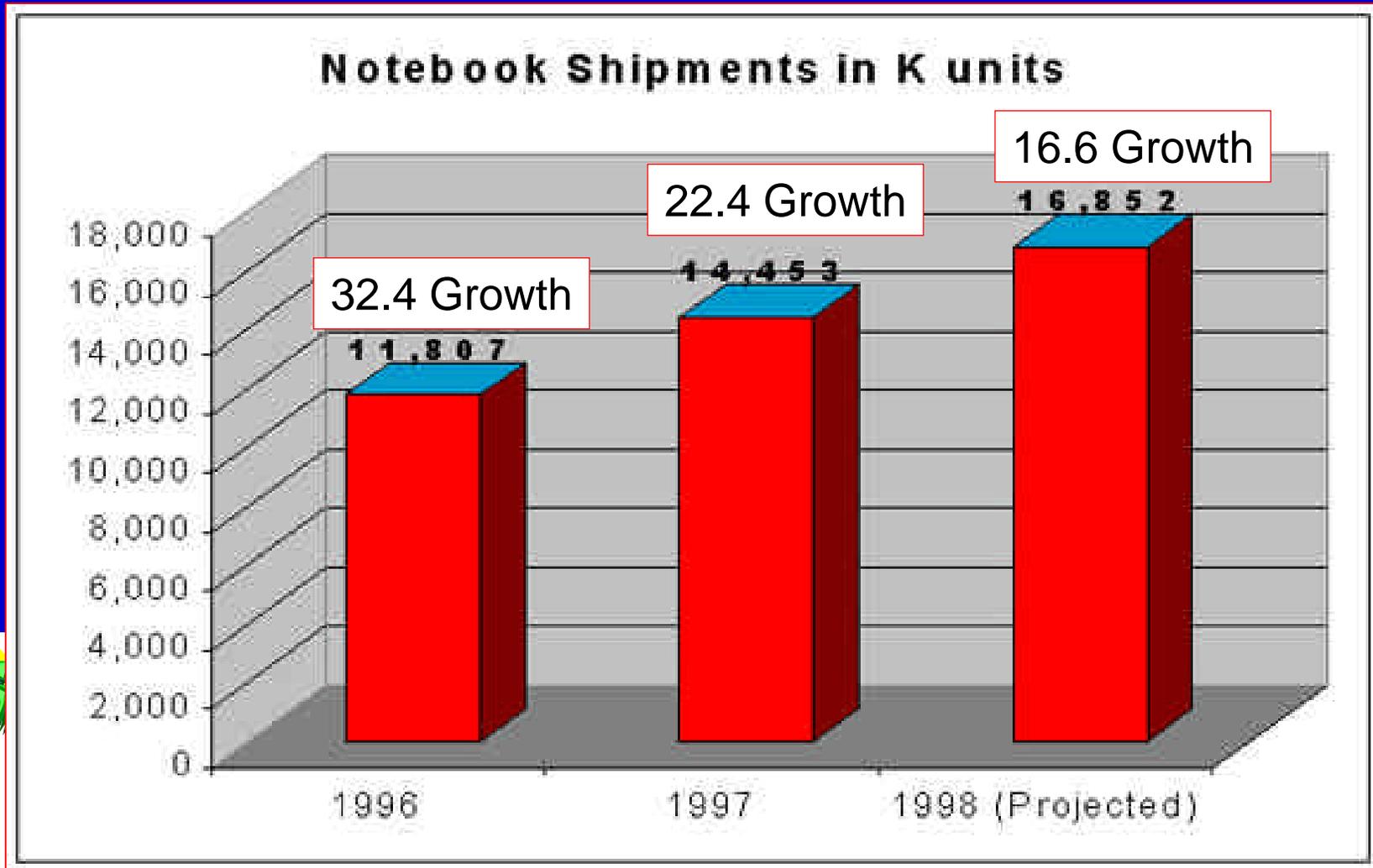
By Sadao Fukatsu
Fujitsu Personal Systems, Inc.



Desktop Marketing Trend



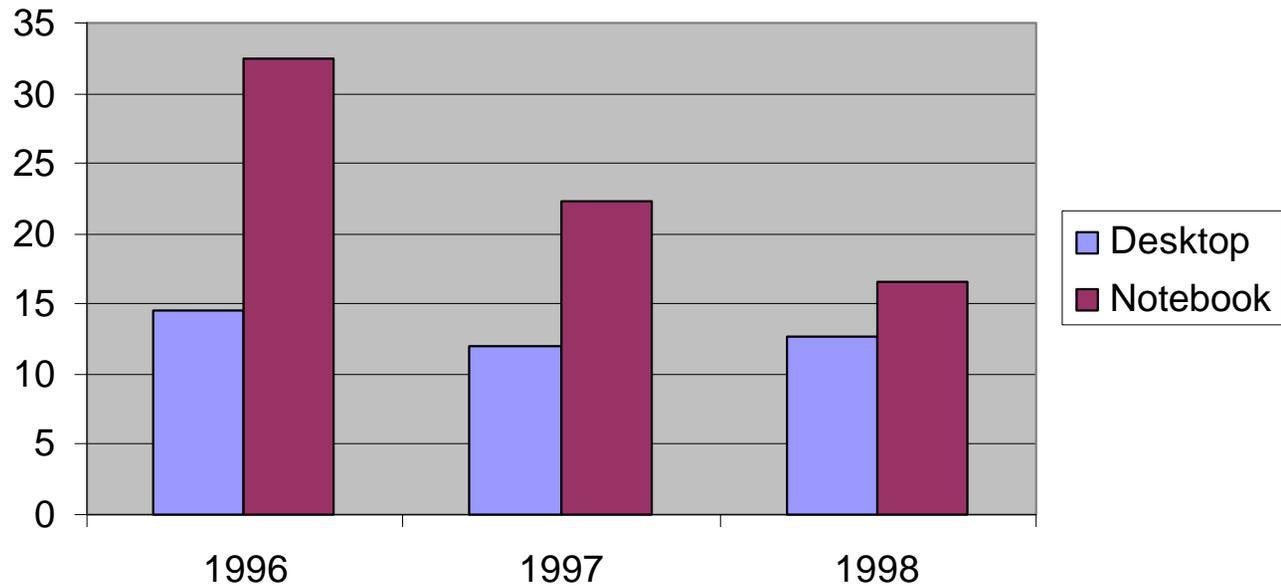
Notebook Marketing Trend



Notebook OEM Expectations for SBS Technology- Fujitsu

Growth Compared

Desktop/Laptop Growth Rate Comparison



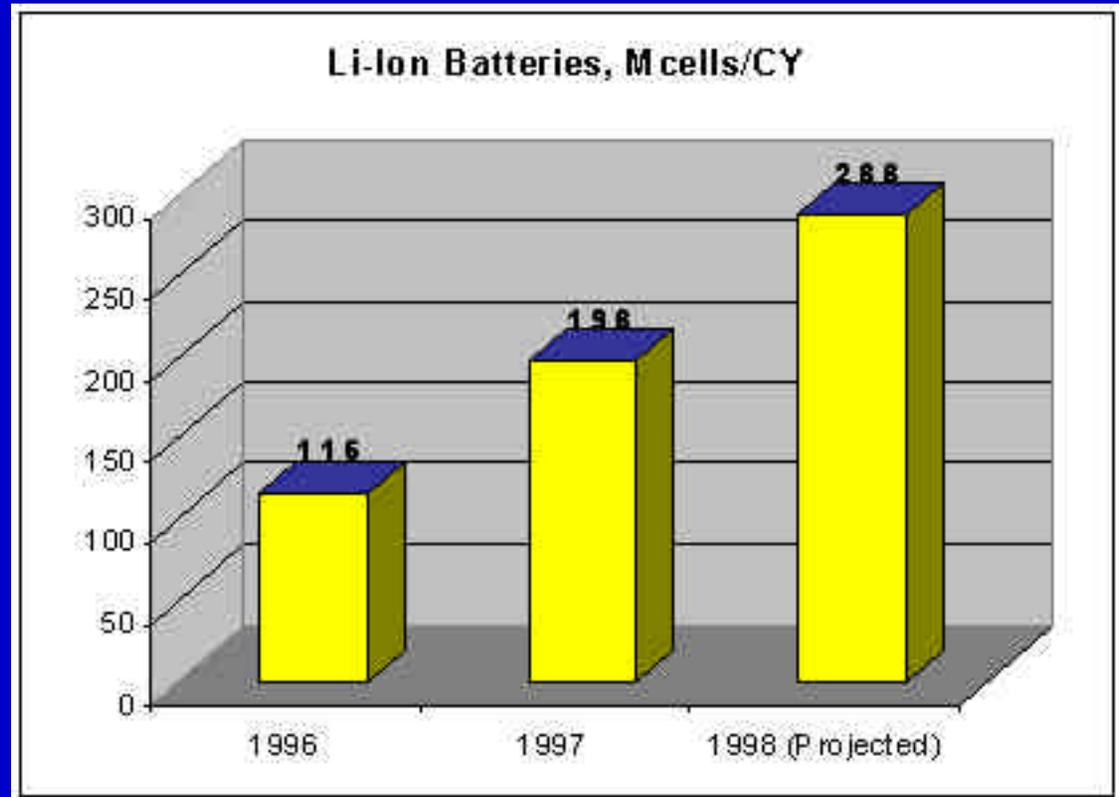
Important Notebook Characteristics

- Lightweight
- Large Screen
- Thermal Management
- Power Management
- Battery Technology
- Etc.



Battery Market Trend

- Li-Ion - fast growth segment
- Companies:
NA - 280
Europe - 50
Asia - 79



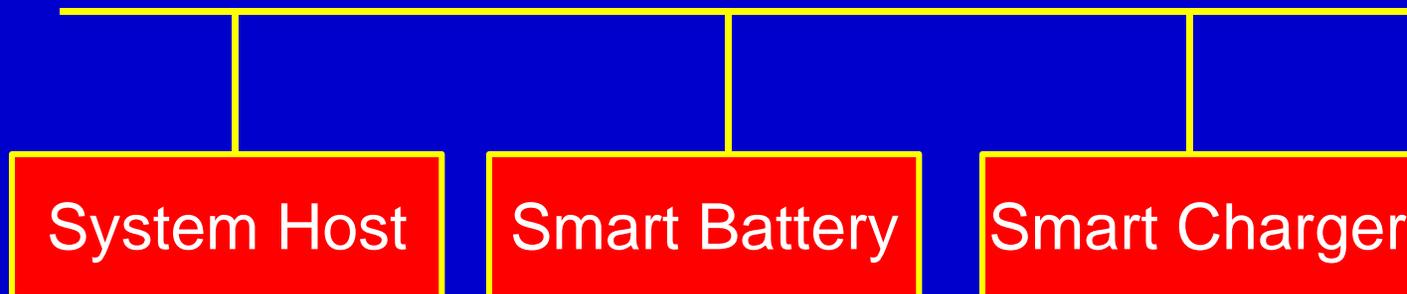
Battery Requirements

- Large Capacity and Cycle Life
- Longer System Run-Time
- Long Term Reliability
- Inter-Operability
- Etc.



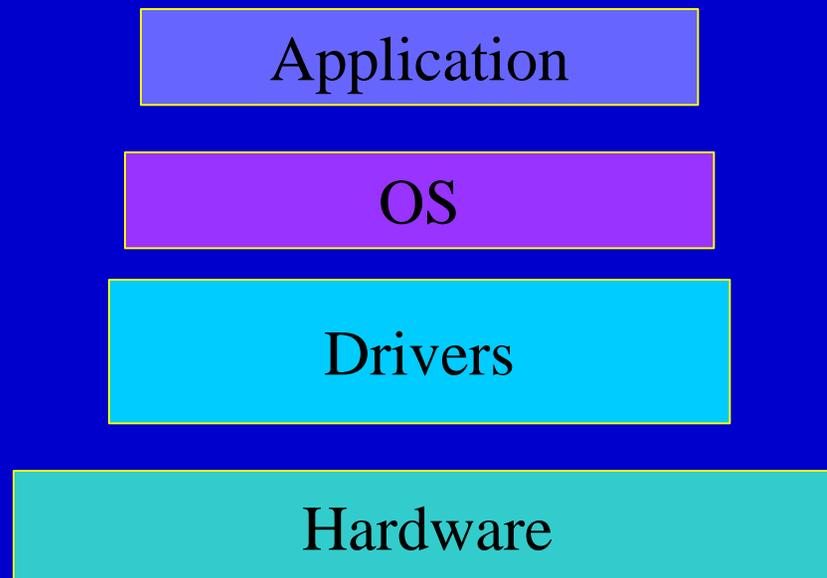
SBS 1.0 Specification

- Defined and Released on January 6, 1997
- SBS Architecture



Architecture of SB System

- Under Windows 98 and NT 5.0
- SBS Architecture



New Technology Challenge in case of FUJITSU

- What have we done?
- What can we improve?
- What is the goal for tomorrow?



Companies We Worked With

TOSHIBA

Microsoft®

O₂Micro
Breathing Life into Computing

intel.

 **MITSUBISHI
ELECTRIC**

Panasonic

 **USAR**

Phoenix
Phoenix Technologies Ltd.



Demo

- What have we done so far?



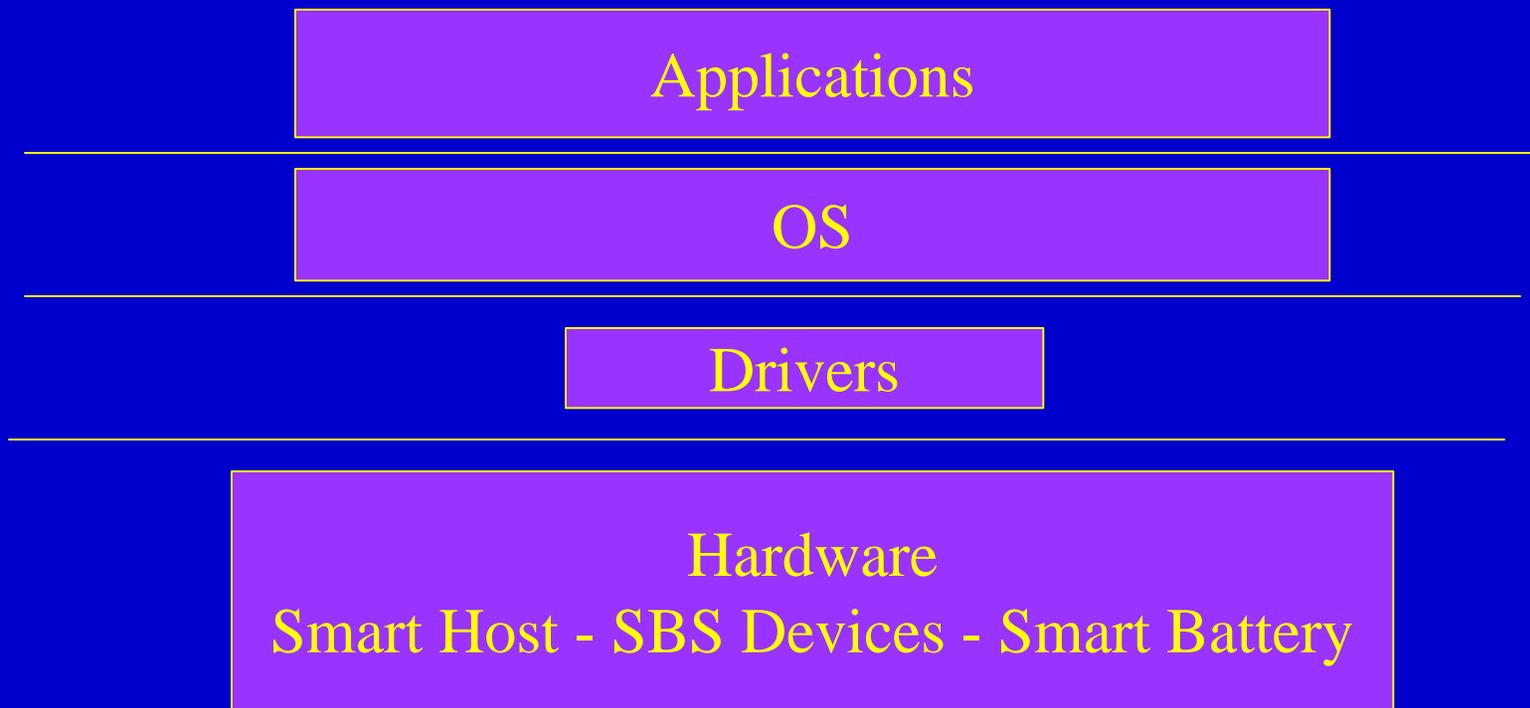
Further Expectations on SBS Specification

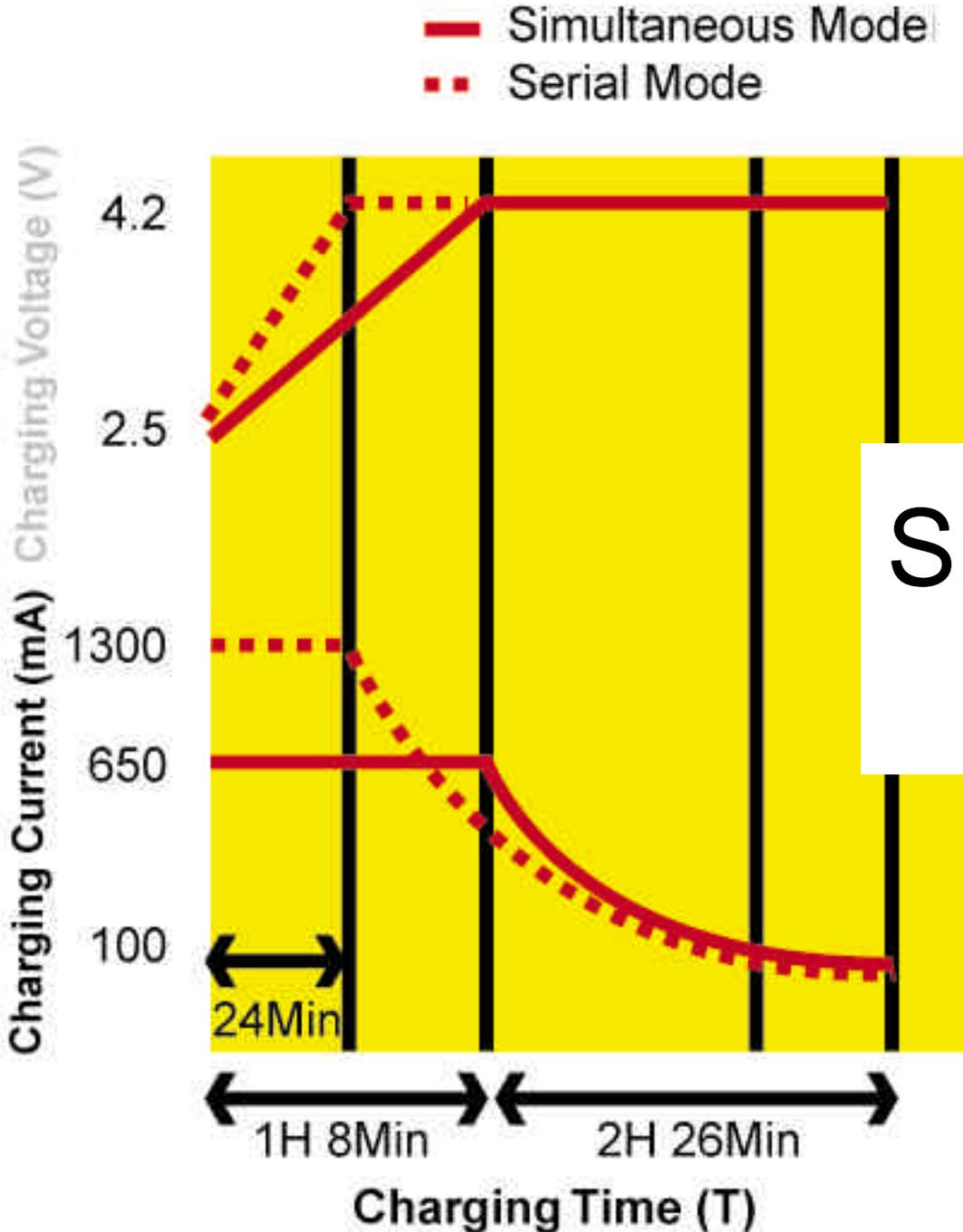
- Version 1.0 - January 6, 1997
- Version 2.0 - due in September 1998
- Open Software Architecture - every level
- Simultaneous Charging/Discharging



SBS Architecture

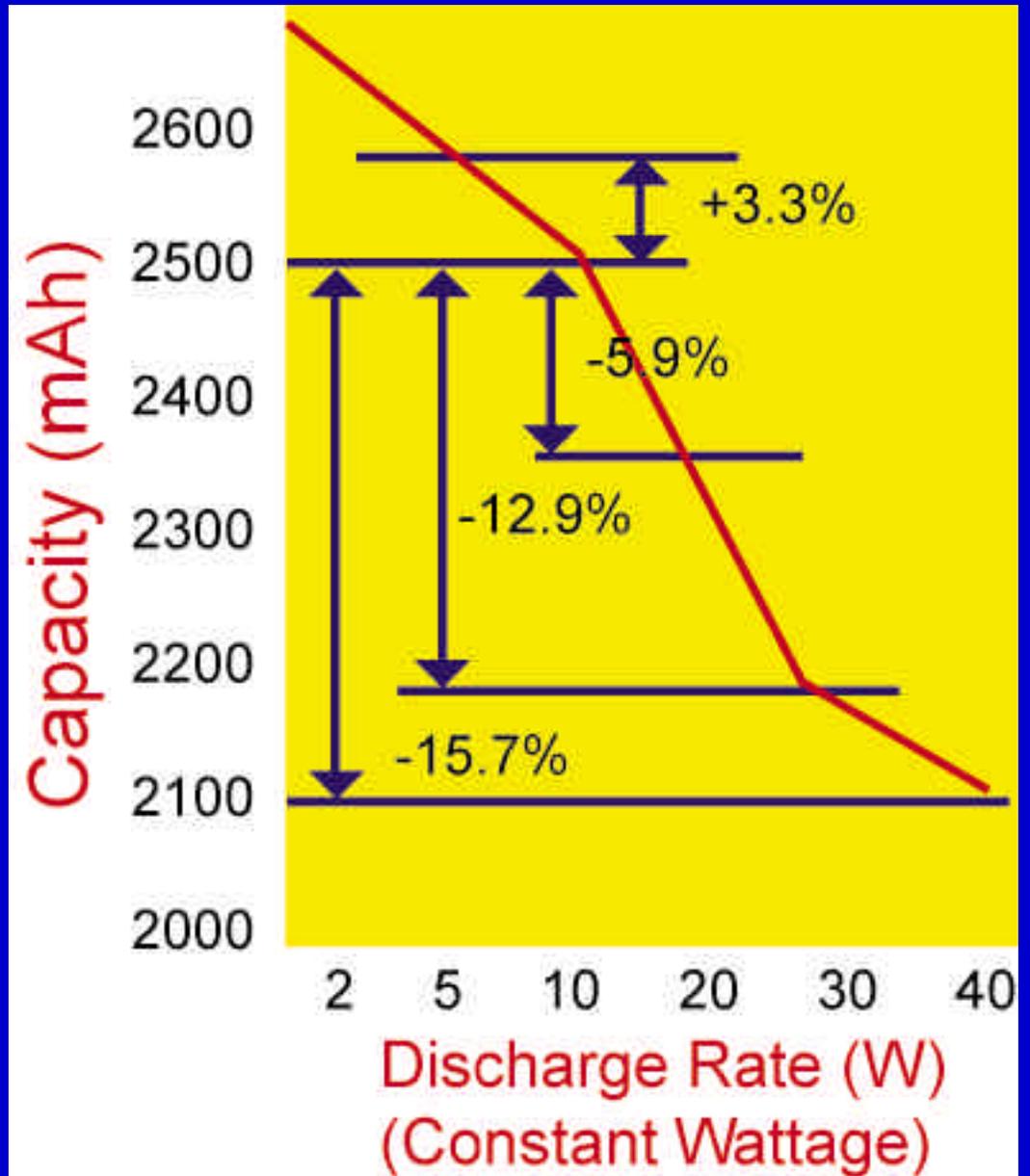
- Total System Definition





Simultaneous Charging

Simultaneous Discharging



Further Improvement

- Effectively Charging while using notebook computer - called Differential Charging Circuit



Conclusion

- SBS 1.0 Specification - Released
- Production Stage
- Need more OEM's Cooperation
- SBS 2.0 Specification - Due in September, 1998

