

Bill Huang Jeff Wang Yong Soo Kim









- History & Business Model
- Overview & Outlook
- Ratio Analysis
- 🔅 Dell
- HP





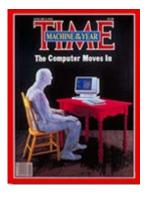


Early History of PC





- 1975 Altair 8800 (\$800)
- CPU: Intel 8080
- Microsoft was founded to make BASIC for the Altair
- ✤ 1981 IBM PC (\$1,600)
- CPU: Intel 8088
- IBM PC DOS was licensed from Microsoft





- 1983 APPLE Lisa (\$10,000)
- CPU: Motorola 68000
- First APPLE with GUI (Graphical User Interface)



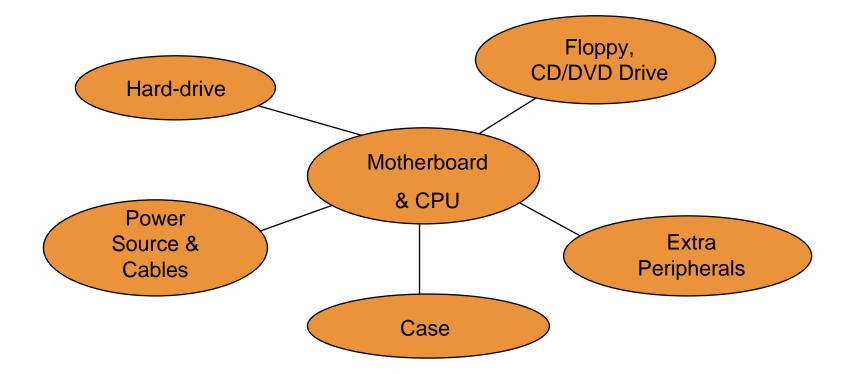




- 1982 Sun Microsystems (workstation, server)
- 1994 Netscape ('03 merged by AOL)
- 1996 Microsoft launched Windows 95
- 1998 Compaq merged DEC
- 2002 HP merged Compaq
- 2004 Gateway merged eMachines
- 2005 IBM sold PC department to Lenovo













✤ Big Box

Direct

White Box









- Traditional approach, through "brick and mortar" retailers and own stores
- Distributors purchase assembled, ready-to-use computers
- Allows consumers to touch and feel the product
- Higher cost due to high inventories, longer distribution channel
- Profit margin eroded







- Take customized orders directly from end consumers
- Assemble systems as orders come in
- Ship the product direct to customers
- More efficient, JIT inventory system
- Lower costs due both to inventory savings and distribution by-passing
- Savings are passed to customers



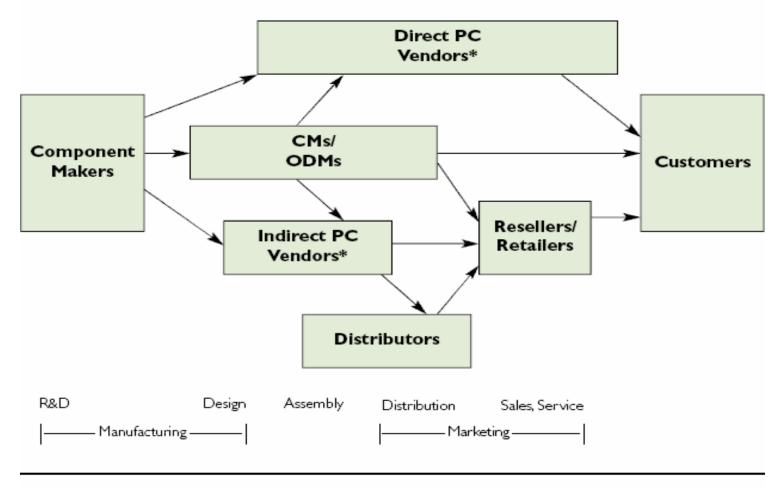




- Combination of Big Box and Direct Sales Strategies
- Own distribution facilities
- Allows consumers to customize their products while giving them a physical location to purchase
- Highly fragmented, estimated to more than 500 unbranded PC makers
- Often sell directly to small businesses looking for a significant price break rather than a big brand machine.



PC Industry Supply Chain, 2004

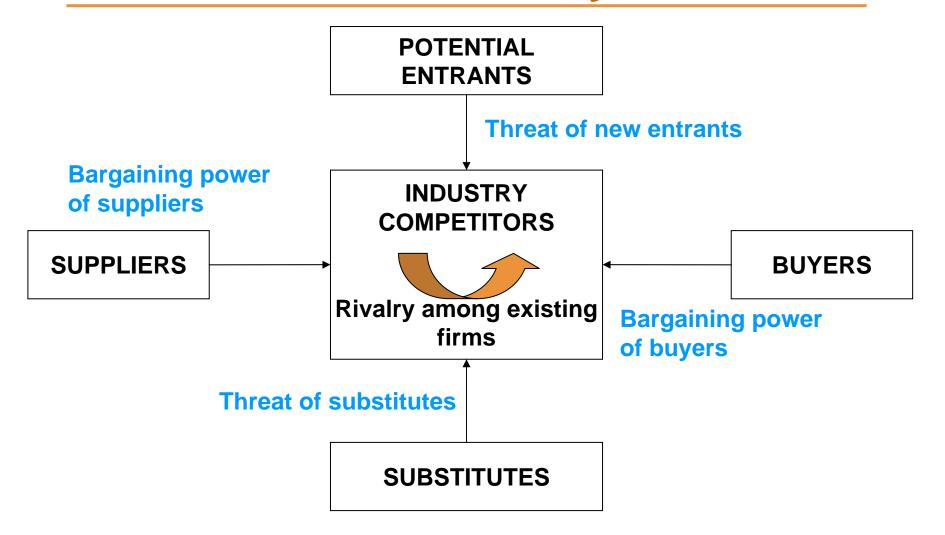


* Some PC vendors sell through both direct and indirect channels.



Apply 5 Forces Model to PC Industry









PC Industry



- Steady and necessary business But...
- Highly Competitive Industry
- Limited Differentiation
- Low Pricing Power
- Capital Intensive









High Entry Barrier
 Very difficult to build a brand in PC market
 Economy of Scale

- High Customers Power
 - Basic market segmentation
 - Business, Educational, Government, Home







High Suppliers Power
 Very strong power of MS and Intel
 Very low power of OEM

Potential Substitutes PDA, Internet TV, Mobile phone, PS, XBOX







<US & Global PC Shipments and Growth rate>

(unit: mil,%)

Description	2004		2005		2006E	
Description	Volume	Growth%	Volume	Growth%	Volume	Growth%
Personal	21.8	8.8	23.6	8.2	25.6	8.7
Business	36.5	11.7	40.6	11.2	43.8	8.1
US	58.3	10.6	64.2	10.1	69.5	8.3
Personal	64.3	13.6	77.5	20.5	86.0	11.0
Business	115.1	16.3	130.2	13.1	143.5	10.2
Global	179.4	15.3	207.7	15.8	229.5	10.5

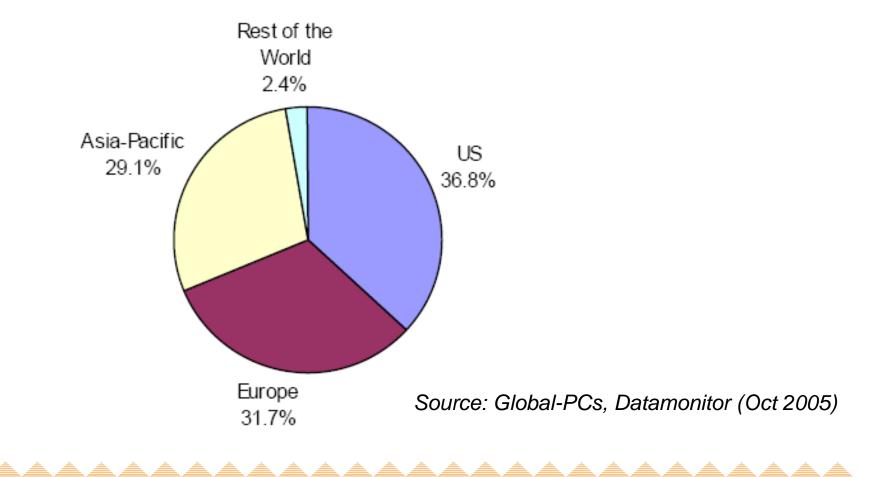
Source: IDC







In terms of value the US represents the largest portion of the global PCs market, accounting for 36.8% of the total revenues.

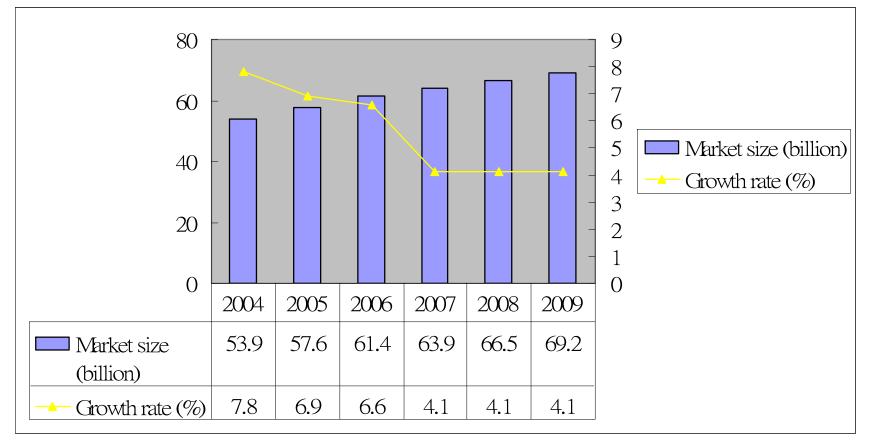




US Desktop Market



<US Desktop PC Market Forecast>



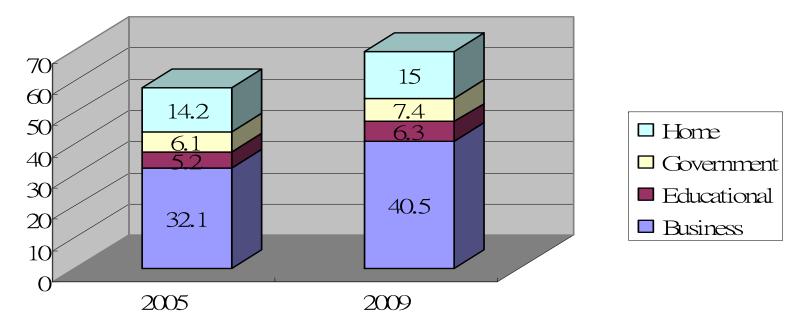
source : Euromonitor International







<Desktop consumer segmentation and market share forecast>

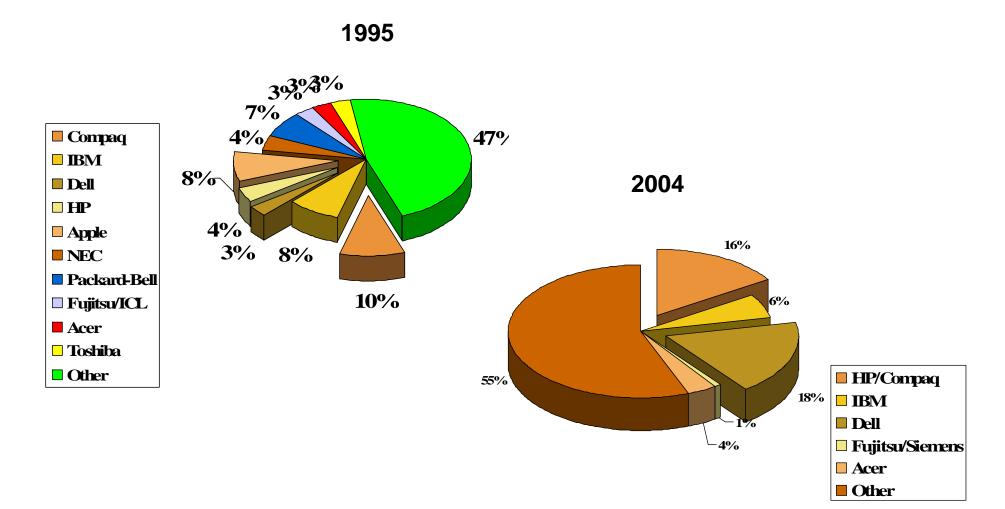


	Home	Government	Education	Business
Growth rate,	5.6%	21.3%	21.2%	26.2%
2005 to 2009	5.07		21.270	

source : Euromonitor International













WORLDWIDE PC SHIPMENTS MARKET SHARE— THIRD QUARTER (Based on units shipped) 2004 2005 Dell 18.0% Dell 17.9% Others 50.8% Others 49.8% Hewlett-Hewlett-Packard Packard 15.9% 16.0% Lenovo* 8.0% Lenovo 7.7% Acer 4.7% Acer 3.6% Fujitsu Siemens 3.8% Fujitsu Siemens 3.8% **TOTAL UNITS: 45.1 MILLION TOTAL UNITS: 52.8 MILLION** *Lenovo share for 2004 is based on combined IBM and Lenovo data. Source: IDC.







Consolidation likely to continue

- ✓ 1992 Top 10 worldwide vendors accounted for roughly 50%
- ✓ 2002 Top 5 worldwide vendors accounted for 45%
- ✓ 2004 Top 5 world wide vendors accounted for 46.9%
- ✓ Not-too-distant future Top 5 vendors will hold 70%

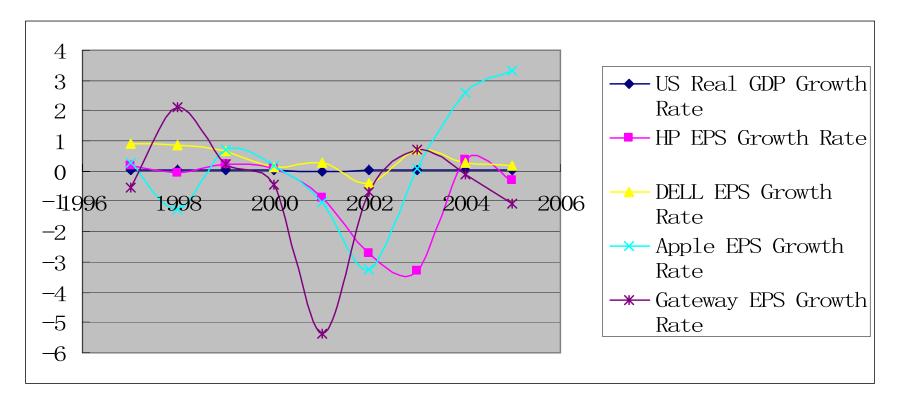
----- S&P' s industry survey

- Drive:
 - ✓ Consistent pricing pressure
 - Customers increasingly prefer to use a single vendor for all of their computing platforms



U.S Economy Cycle VS EPS of PC Makers





Source: CoreReference, Federal Bank of St. Louis

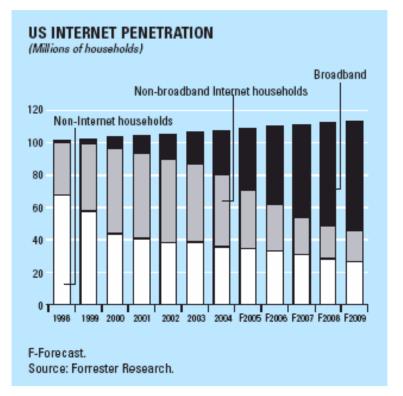


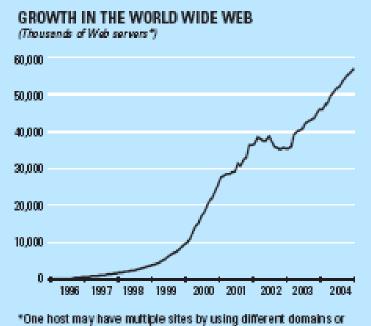


Industry Outlook



Internet boosts the stable growth of PCs demand





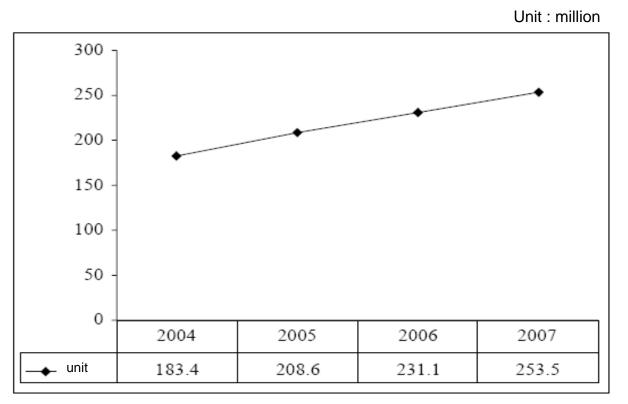
^{*}One host may have multiple sites by using different domains or port numbers. Source: Zakon Group LLC.







Global PC market sales forecast



Notes : Desktop + Laptop

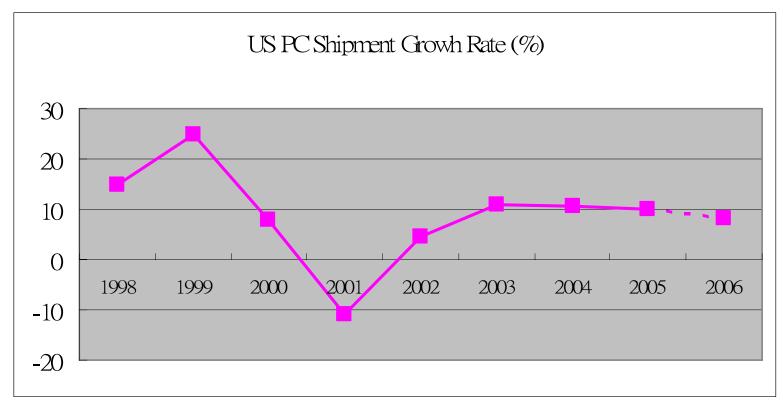
Source : Gartner (Dec, 2005)

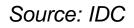






US PC market perks up



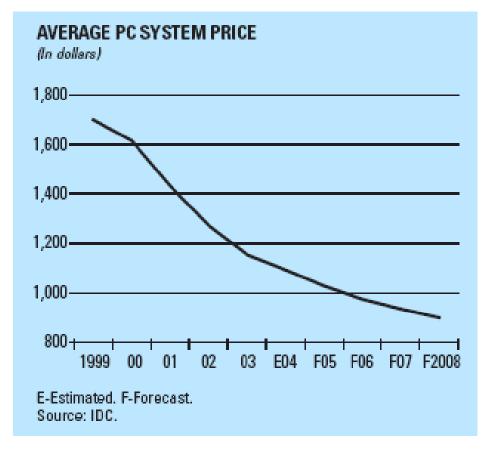








Competitive pricing everywhere

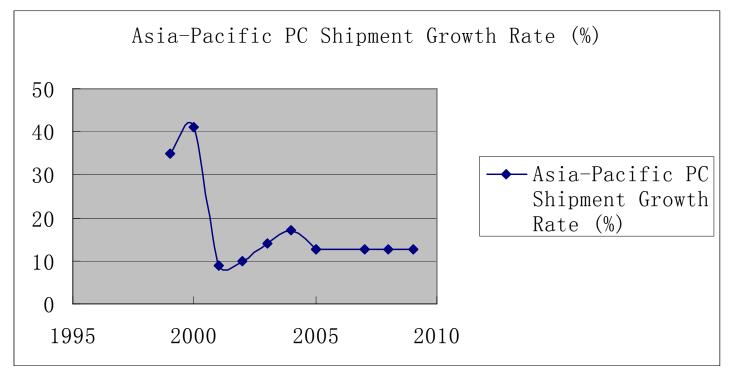


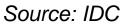






- International markets offer long-term growth
 - Asia-Pacific Region (excluding Japan)





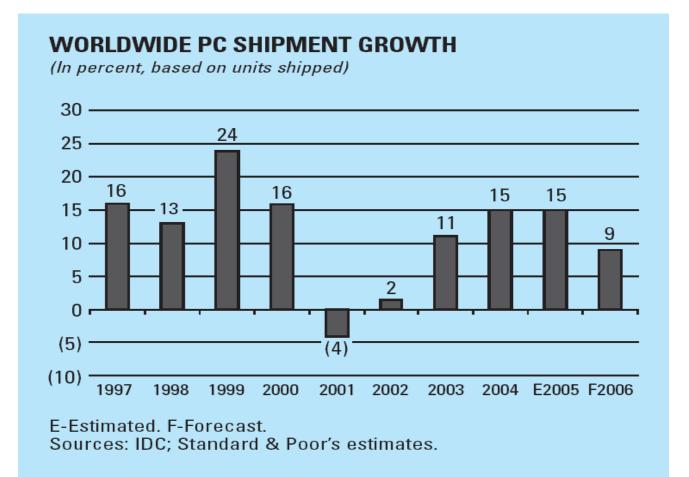




Industry Outlook



PC Biz Cycle







Industry browser

Description	Personal Computers
P/E	37
ROE %	26.8
Price to Book	9.86
Net Profit Margin (mrq)	5.7
Price To Free Cash Flow (mrq)	20.9







GICS Sector: Information Technology Sub-Industry: Computer Hardware

Based on S&P 1500 Indexes Month-end Price Performance as of 01/31/06



Note: All Sector & Sub-Industry Information is based on the Global Industry Classification Standard (GICS)



PC Industry Key Financial Statistics (TTM)

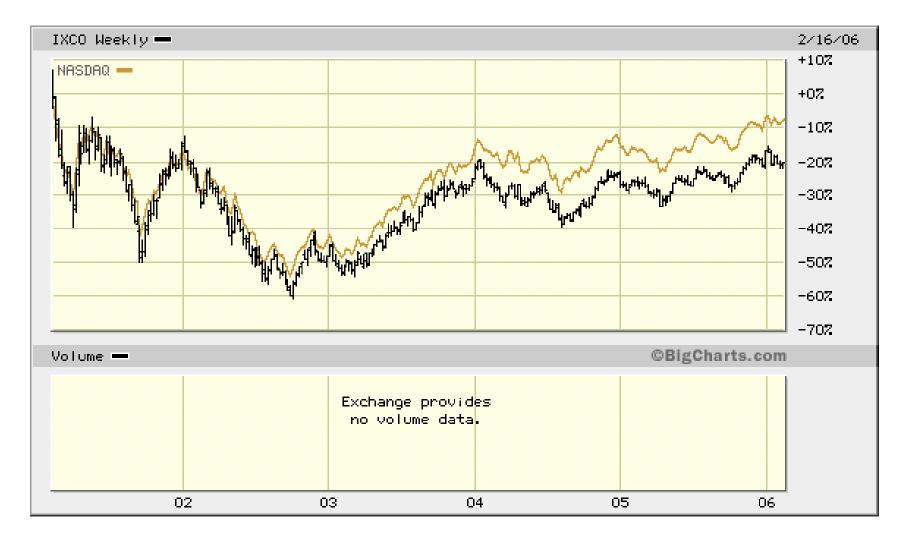
Valuation		Profitability	
P/E	37.00	Gross Margin	20.90%
P/B	9.91	EBIT Margin	8.50%
P/S	2.04	Net Profit Margin	5.70%
P/FC	21.50	EPS	0.73

Management Effectiveness		Financial Strength		
ROE	26.80%	Quick Ratio	1.3	
ROA	10.40%	Current Ratio	1.5	
ROI	25.40%	LT Debt/Equity	0.06	
		Total Debt/Equity	0.06	

source: www. CoreReference.com



PC Industry Index vs NASDAQ

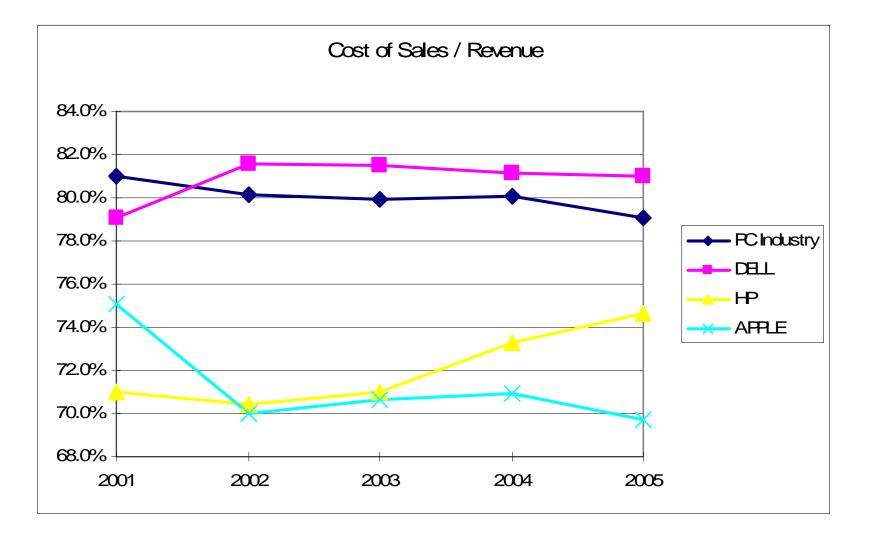






Financial Analysis



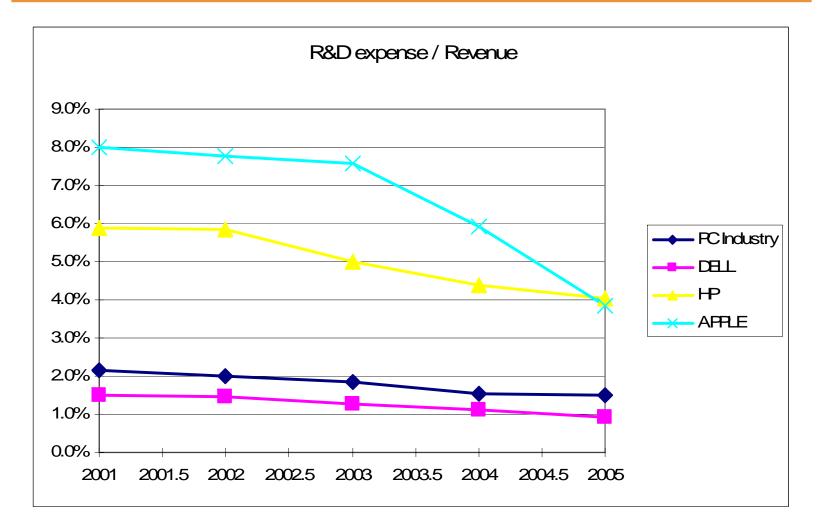






Financial Analysis

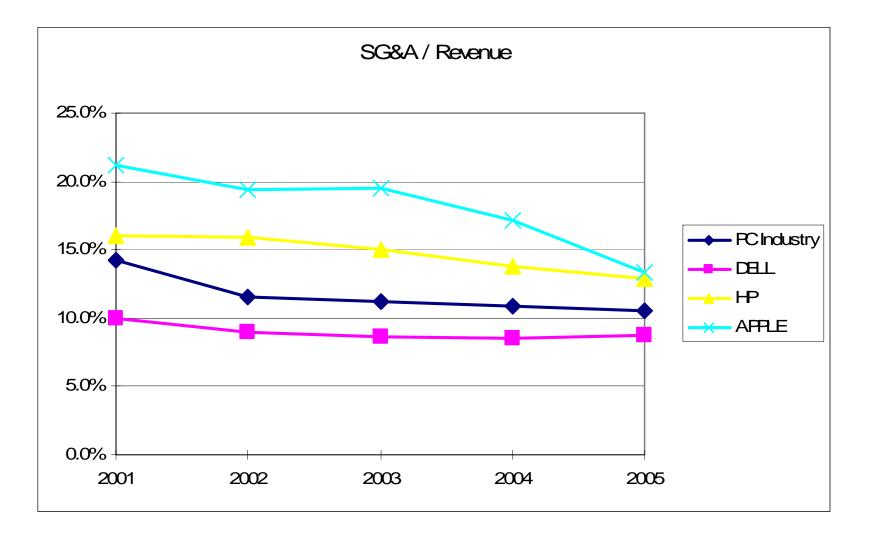










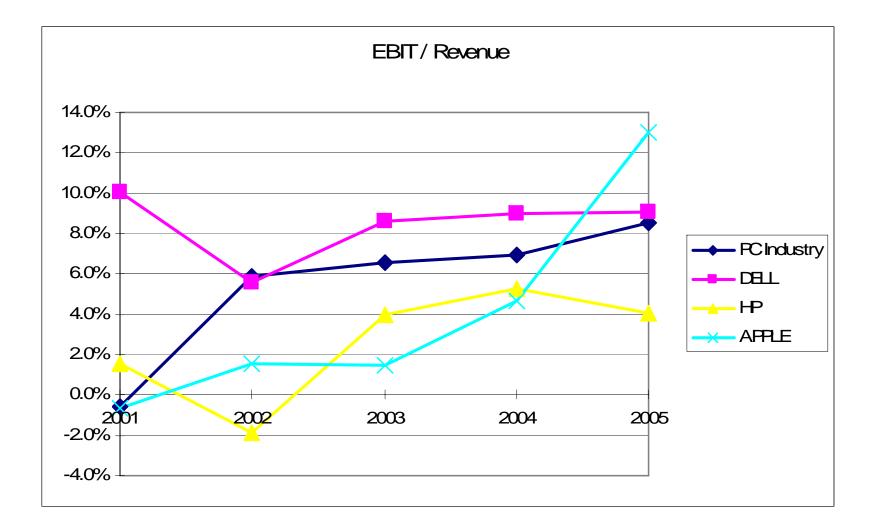






Financial Analysis



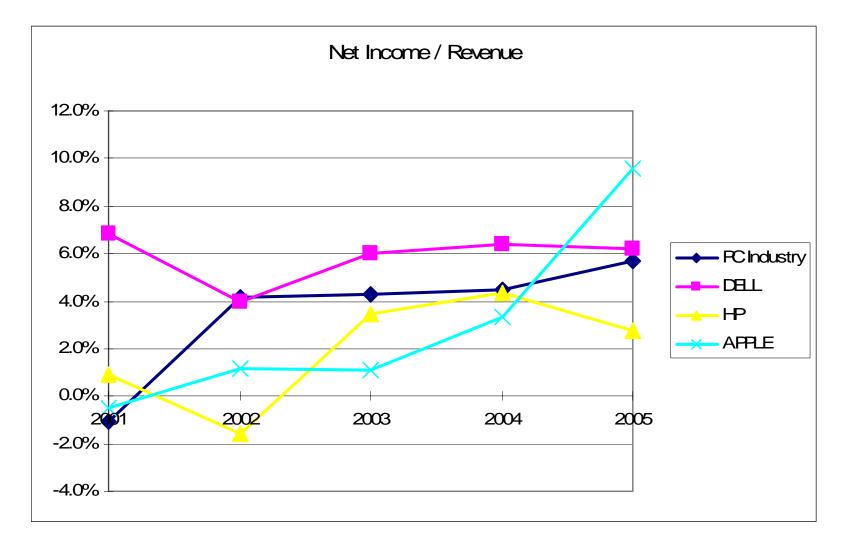






Financial Analysis















- Michael Dell founded the company as Dell Computers in 1984, in Texas
- IPO in 1989
- The first notebook computer launching in 1991
- In 2004, new technology agreements with Fuji Xerox, Kodak, and Samsung. And strategic partnership with Oracle
- Strategic development partnership with MS in 2004
- Strategic development partnership with Google in 2006





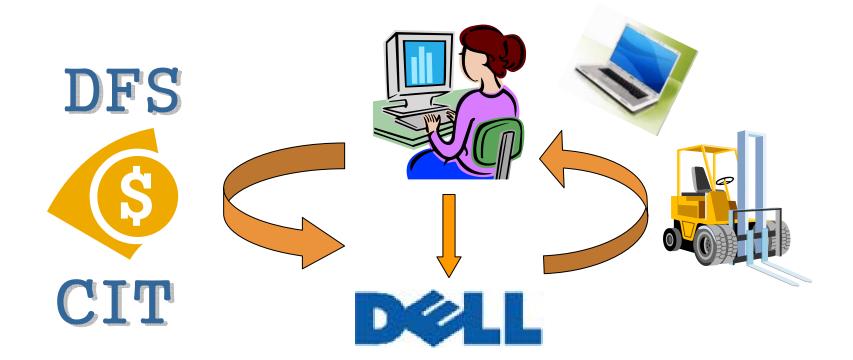
Product line



Products	
Servers	PowerEdge™
Storage	Dell/EMC and PowerVault [™]
Workstations	Precision™
Networking Products	PowerConnect™
Notebook Computers	Latitude [™] , Inspiron [™]
Desktop Computer Systems	OptiPlex [™] , Dimension [™]
Printing and Imaging Systems	Ink, Toner management system™
Software and Peripherals	LCD, Accessories
Services	
Financial Services	DFS, CIT











Management





Kevin B. Rollins President and CEO

Michael S. Dell Chairman of the Board



•53

- •VP and partner of Bain & Company
- •The request of the President of the US on the Advisory Committee for Trade Policy and Negotiation

•41

•The US President's Council of Advisors on Science and Technology







Direct customer relationship

- The most efficient path to the customer
- Direct business model", eliminates wholesale and retail dealers that add unnecessary time and cost or diminish Dell's understanding of customer expectations

Custom-built products and custom-tailored services

- The most effective model for providing solutions that address customer needs
- Dell's flexible, build-to-order manufacturing process enables Dell to turn over inventory every four days on average, and reduce inventory levels







The <u>low-cost leader</u>

- Highly efficient supply chain management and manufacturing organization
- Dell's relentless focus on reducing its costs allows it to consistently provide customers with superior value
- Non-proprietary <u>standards-based</u> technologies
 - Focusing on standards gives customers the benefits of extensive research and development
 - Unlike proprietary technologies, standards provide customers with flexibility and choice





Why Dell?



Notable clientele

- Six leading US banks and 10 of the largest state governments.
- Major clients : Oxford University, Barclays, WH Smith, NTT DoCoMo, Pioneer Corporation, Petrochina Company, China Telecom, Alcan, Cargill, Southwest Airlines Company, Honeywell and Verizon Communications





Why Dell?



Entering new markets through partnerships

- Three main product areas where it believes growth and profitability are attractive: consumer electronics, storage, and printers.
- In printers, Dell opted to partner with Lexmark and more recently Fuji Xerox, Kodak, and Samsung.
- In storage, Dell has partnered with EMC to deliver its midrange SAN product, Clariion, which is aimed at small and medium-sized businesses.
- In the consumer electronics segment, Dell has delivered a host of new products including Axim handheld, Dell Music Store, and LCD-TVs.







Disruptions in component availability

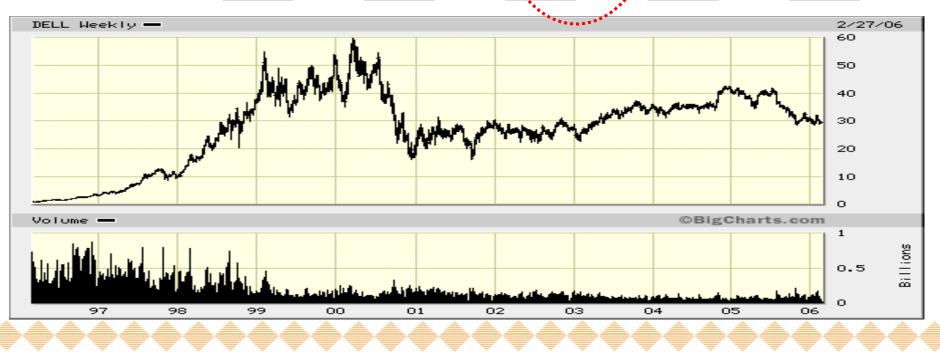
- Dell's financial success in recent periods has been due in part to its supply chain management practices, including its ability to achieve rapid inventory turns
- Reliance on suppliers
 - Dell's manufacturing process requires a high volume of quality components that are procured from third-party suppliers
- Loss of government contracts



Company Financials



Dor Shara Data(*)										
Per Share Data(\$) (Year Ended January 31)	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Tangible Book Value	2.61	2.46	1.89	1.80	2.16	1.94	0.91	0.50	0.29	0.32
Cash Flow	1.32	1.11	0.88	0.54	0.90	0.67	0.56	0.34	0.19	0.10
Earnings	1.18	1.01	0.80	0.46	0.81	0.61	0.53	0.32	0.17	0.08
Dividends	Nil	Nil	Nil							
Payout Ratio	Nil	Nil	Nil							
Calendar Yrs.	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Prices-High	42.57	37.18	31.06	31.32	59.68	55.00	37.90	12.98	4.02	1.54
-Low	31.14	22.59	21.90	16.01	16.25	31.37	9.92	3.11	0.71	0.61
P/E Ratio-High	36	37	39	68	74	90	73	41	23	18
-Low	26	22	27	35	20	.51	19	10	4	7





Company Financials



I/S Analysis (Million \$)	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
(Year Ended January 31)	2005	2004	2003	2002	2001	2000	1999	1990	1997	1990
Revenue	49,205	41,444	35,404	31,168	31,888	25,265	18,243	12,327	7,759	5,296
Operating Income	4,588	3,807	3,055	2,510	3,008	2,419	2,149	1,383	761	415
Depreciation	334	263	211	239	240	156	103	67	47	38
Interest Expense	16	14	17	29	47	34	Nil	3	7	15
Pretax Income	4,445	3,724	3,027	1,731	3,194	2,451	2,084	1,368	747	383
Effective Tax Rate	31.5%	29.0%	29.9%	28.0%	30.0%	32.0%	29.9%	31.0%	28.9%	28.9%
Net Income	3,043	2,645	2,122	1,246	2,236	1,666	1,460	944	531	272
B/S & Others (Million \$)										
(Year Ended January 31)	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Cash	4,747	4,317	4,232	3,641	4,910	3,809	3,181	1,844	1,352	646
Current Assets	16,897	10,633	8,924	7,877	9,491	7,681	6,339	3,912	2,747	1,957
Total Assets	23,215	19,311	15,470	13,535	13,435	11,471	6,877	4,268	2,993	2,148
Current Liabilities	14,136	10,896	8,933	7,519	6,543	5,192	3,695	2,697	1,658	939
LT Debt	505	505	506	520	509	508	512	17	18	113
Common Equity	6,485	6,280	4,873	4,694	5,622	5,308	2,321	1,293	806	967
Total Cap.	6,990	6,785	5,379	5,214	6,131	5,816	2,833	1,310	824	1,080
Capital Exp.	525	329	305	303	482	397	296	187	114	101
Cash Flow	3,377	2,908	2,333	1,485	2,476	1,822	1,563	1,011	578	310
Current Ratio	1.2	1.0	1.0	1.0	1.5	1.5	1.7	1.5	1.7	2.1
% LT Debt of Cap.	7.2	7.4	9.4	10.0	8.3	8.7	18.1	1.3	2.2	10.5
% Net Inc. of Revenues	6.2	6.4	6.0	4.0	7.0	6.6	8.0	7.7	6.8	5.1
% Return on Assets	14.3	15.2	14.6	9.2	18.0	18.2	26.2	26.0	20.7	14.5
% Return on Equity	47.7	47.4	44.4	24.2	40.9	43.7	80.8	89.9	59.9	36.3

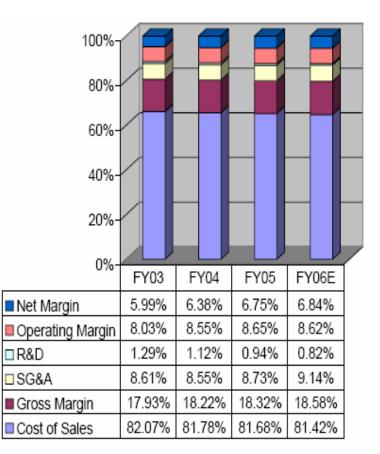




Income Statement



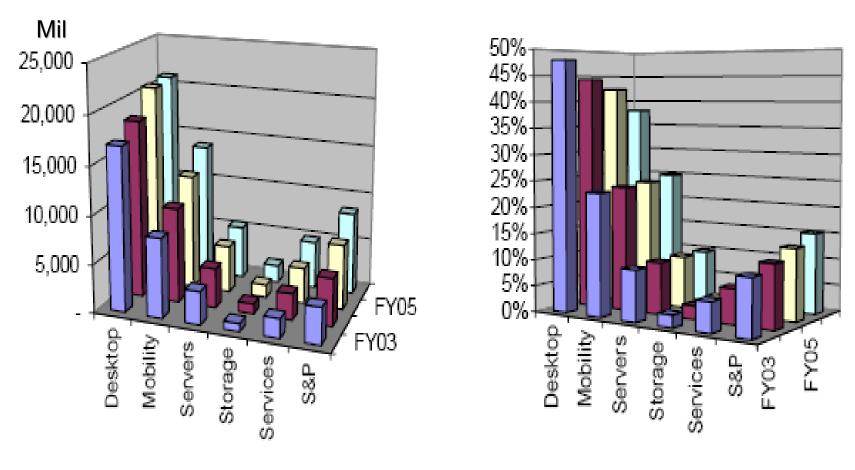
FY Ending: Jan. Numbers in \$ Million	FY03	FY04	FY05	FY06E
Net Sales	35,404	41,444	49,205	55,525
Cost of Sales	29,055	33,892	40,190	45,208
Gross Profit	6,349	7,552	9,015	10,317
SG&A	3,050	3,544	4,298	5,074
R&D	455	464	463	456
Total Operation expense	3,505	4,008	4,761	5,531
Operating Income	2,844	3,544	4,254	4,786
Interest Income	183	180	191	230
Pre-tax Income	3,027	3,724	4,445	5,016
Taxes	905	1,079	1,122	1,216
Net Income	2,122	2,645	3,323	3,800
EPS	0.8	1.01	1.29	1.55
Shares	2,644	2,619	2,567	2,458







Net revenue

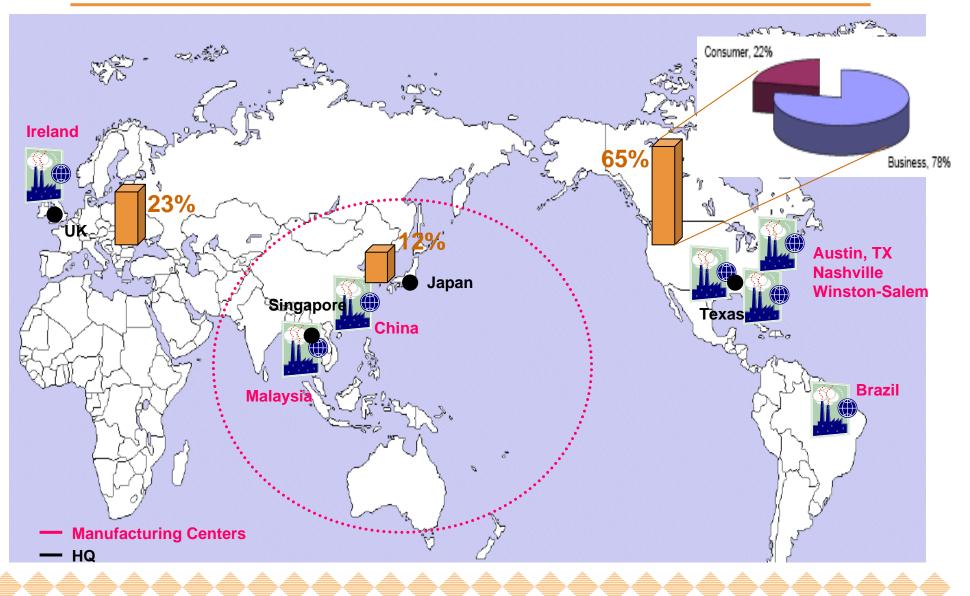


Net revenue %



Regional Breakdown





Segment information



\$ Millions	FY03	FY04	FY05	FY06E
Americas	\$25,163	\$28,603	\$32,940	\$36,199
% Total Revenue	71%	69%	67%	65%
Operating Income	\$2,253	\$2,594	\$2,978	\$3,449
Operating Margin	9.00%	9.10%	9.00%	9.50%
US Business	\$19,394	\$21,888	\$25,339	\$28,256
Operating Income	\$1,945	\$2,194	\$2,579	\$3,006
Operating Margin	10.00%	10.00%	10.20%	10.60%
US Consumer	\$5,769	\$6,715	\$7,601	\$7,943
Operating Income	\$308	\$400	\$399	\$442
Operating Margin	5.30%	6.00%	5.20%	5.60%
Europe	6,912	8,495	\$10,787	\$12,687
% Total Revenue	20%	20%	22%	23%
Operating Income	\$388	\$637	\$818	\$832
Operating Margin	5.60%	7.50%	7.60%	6.60%
Asia Pacific/Japan	3,445	4,346	\$5,478	\$6,639
% Total Revenue	10%	10%	11%	12%
Operating Income	\$203	\$313	\$458	\$506
Operating Margin	5.90%	7.20%	8.40%	7.60%
Total Revenue	\$35,404	\$41,444	\$49,205	\$55,525
Y/Y Change	14%	17%	19%	13%





Balance Sheet



Source : Company & Credit Suisse

				2005 Quarte				2006 Quarte	erly Results		
FY Ending: Jan.	4Q03	4Q04	1Q05	2Q05	3Q05	4Q05	1Q06	2Q06	3Q06	4Q06E	4Q07E
Numbers in \$000	Jan-03	Jan-04	Apr-04	Jul-04	Oct-04	Jan-05	Apr-05	Jul-05	Oct-05	Jan-06	Jan-07
Orah and Orauiting	64 000 000	CC 453 000	@F 2FF 000	65 524 000	67 404 000	£0.007.000	CO 044 000	60.040.000	60 204 000	#0.470.00F	¢7 200 007
Cash and Securities	\$4,638,000	\$5,152,000	\$5,255,000	\$5,534,000	\$7,494,000	\$9,807,000	\$9,841,000	\$9,046,000	\$9,281,000	\$9,176,325	\$7,390,987
Accounts Receivable	2,586,000	3,635,000	3,424,000	3,625,000	4,167,000	4,414,000	4,289,000	4,443,000	4,860,000	5,190,137	5,967,123
Inventories	306,000	327,000	425,000	418,000	415,000	459,000	483,000	570,000	582,000	608,057	662,961
Other Current Assets	1,394,000	1,519,000	2,073,000	2,055,000	2,124,000	2,217,000	2,439,000	2,739,000	2,841,000	2,850,000	3,050,000
Total Current Assets	8,924,000	10,633,000	11,177,000	11,632,000	14,200,000	16,897,000	17,052,000	16,798,000	17,564,000	17,824,519	17,071,072
Property, Plant, Equipment	913,000	1,517,000	1,510,000	1,578,000	1,627,000	1,691,000	1,741,000	1,843,000	1,895,000	2,013,000	2,290,000
Other Noncurrent Assets	5,633,000	7,161,000	7,022,000	6,722,000	5,227,000	4,627,000	3,894,000	3,970,000	3,415,000	3,365,000	3,065,000
TOTAL ASSETS		\$19,311,000		\$19,932,000		\$23,215,000	\$22,687,000			\$23,202,519	
Accounts Payable	5,989,000	7,316,000	7,518,000	7,444,000	8,067,000	8,895,000	9,057,000	9,196,000	9,376,000	10,178,345	11,491,323
Other	2,944,000	3,580,000	3,803,000	3,877,000	4,707,000	5,241,000	5,332,000	5,172,000	5,871,000	5,921,000	6,121,000
Current Liabilities	8,933,000	10,896,000	11,321,000	11,321,000	12,774,000	14,136,000	14,389,000	14,368,000	15,247,000	16,099,345	17,612,323
Noncurrent Liabilities	1,158,000	1,630,000	1,778,000	1,899,000	1,895,000	2,089,000	2,170,000	2,230,000	2,302,000	2,245,000	1,945,000
Long Term Debt	506,000	505,000	505,000	505,000	505,000	505,000	504,000	504,000	504,000	500,000	500,000
Shareholders' Equity	4,873,000	6,280,000	6,105,000	6,207,000	5,880,000	6,485,000	5,624,000	5,509,000	4,821,000	4,358,174	2,368,748
TOTAL LIABILITIES & EQUITY	\$15,470,000	\$19,311,000	\$19,709,000	\$19,932,000	\$21,054,000	\$23,215,000	\$22,687,000	\$22,611,000	\$22,874,000	\$23,202,519	\$22,426,072
				4.0							1.0
Current Ratio	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.0
Receivable Turnover	14.8	13.6	13.5	12.9	12.0	12.2	12.5	12.1	11.4	11.4	11.1
Inventory Turnover	103.8	110	89.1	91.6	98.2	95.5	90.2	76.7	77.8	79.3	81.1
Payables Turnover	5.3	5.3	5.0	5.1	5.1	4.9	4.8	4.8	4.8	4.7	4.7
Average Asset Turnover	2.4	2.4	2.5	2.5	2.4	2.3	2.4	2.5	2.5	2.4	2.7
Return on Average Assets	14.60%	15.20%	15.70%	16.20%	16.00%	15.60%	16.60%	17.20%	17.10%	16.40%	18.20%
Return on Average Equity	44.40%	47.40%	49.70%	50.50%	53.20%	52.10%	60.10%	62.50%	70.30%	70.10%	123.70%
Debt as % Total Capital	9.40%	7.40%	7.60%	7.50%	7.90%	7.20%	8.20%	8.40%	9.50%	10.30%	17.40%
Book Value per share	\$1.86	\$2.40	\$2.35	\$2.41	\$2.31	\$2.54	\$2.24	\$2.22	\$1.98	\$1.81	\$1.03
Cash per Share	\$1.77	\$1.97	\$2.03	\$2.15	\$2.94	\$3.84	\$3.91	\$3.65	\$3.81	\$3.82	\$3.21



Cash Flow





					2006 (Quarterly Re	esults			2007 (Quarterly Re	esults	
FY Ending: Jan.	FY03	FY04	FY05	1Q06	2Q06	3Q06	4Q06E	FY06E	1Q07E	2Q07E	3Q07E	4Q07E	FY07E
Numbers in \$ millions				Apr-05	Jul-05	Oct-05	Jan-06		Apr-06	Jul-06	Oct-06	Jan-07	
Cash flows from operating activities:													
Income	2,122	2,645	731	799	846	667	3.043	934	1,020	606	987	3,547	4,161
Adjustments:	2,122	2,045	751	155	040	007	3,045	554	1,020	000	507	3,347	4,101
Depreciation/Amortization	211	263	82	79	82	91	334	91	97	98	102	388	423
Tax Benefits of Employee Stock Plans	260	181	25	45	40	139	249	32	91	30	30	183	-20
Other, net	-477	-564	-112	-51	-85	-276	-524	-62	137	53	0	128	0
	411	-504	-112	-51	-05	-210	-524	-02	157	55	0	120	
Changes in:													
Operating Working Capital	1,210	872	81	-270	915	1,029	1,755	103	-550	247	446	246	481
Non-current Assets & Liabilities	212	273	195	101	-11	168	453	92	124	114	0	0	0
Net cash provided by operations	3,538	3,670	1,002	703	1,787	1,818	5,310	1,190	919	1,148	1,565	4,492	5,065
Cash flows from investing activities:													
Capital Expenditures	-305	-329	-82	-134	-139	-170	-525	-143	-204	-160	-220	-727	-700
Purchases of Marketable Securities	-8,736	-12,099	-3,505	-3,214	-2,765	-2,777	-12,261	-869	-2,144	-1.749	0	-4,762	,00
Proceeds from Maturities/Sales of Securities	7,660	10,078	3,264	3,221	2,692	1,292	10,469	2,726	3,344	2,623	Ő	8,693	0
Purchase of assets held in master lease facilities	1,000	-636	0,204	0,221	2,002	1,232	0,405	2,720	0,044	2,020	Ő	0,000	Ö
Cash assumed in consolidation of DFS	0	172	Ő	Ő	Ő	Ő	Ő	0	õ	Ő	õ	0	0
Net cash used in investing	-1,381	-2,814	-323	-127	-212	-1,655	-2,317	1,714	996	714	-220	3,204	-700
Cash flow from financing activities:													
Purchase of Common Stock	-2,290	-2,000	-1,131	-891	-1,327	-870	-4,219	-2,000	-1.800	-1,450	-1,700	-6,950	-7,000
Issuance of Common Stock	-2,290 265	-2,000 628	-1,131 114	-691	-1,327	-870 644	-4,219	-2,000 161	-1,800 466	-1,450 146	-1,700	-0,950 1,023	-7,000 850
Other	205	-11	0	190	-17	044	1,091	101	400	140	230	1,023	000
Net cash provided by financing	-2,025	-1,383	-1,017	-695	-1,190	-226	-3,128	-1,839	-1,334	-1,304	-1,450	-5,927	-6,150
Effect of Exchange Rates	-2,025	612	-1,017 96	-095	-1,190	-220	-3,120	-1,059 62	-1,554 -118	-1,304 -54	-1,450	-5,927	-0,150
Ellect of Exchange Rates	409	012	90	09	115	200	505	02	-110	-04	U	-110	U
Net (dec)inc in cash and cash equivalents	591	85	-242	-50	500	222	430	1,127	463	504	-105	1,659	-1,785
Cash and cash equivalents at beg of period	3,641	4,232	4,317	4,075	4,025	4,525	4,317	4,747	5,874	6,337	6,841	4,747	6,406
Cash and cash equivalents at end of period	4,232	4,317	4,075	4,025	4,525	4,747	4,747	5,874	6,337	6,841	6,736	6,406	4,621



Valuation



DCF Valuation Summary		Free Cash Flow			
			FreeCashFlow	DiscountFactor (WACC=10%)	PV
Operating Value	63,319,516	2007	4,364,574	0.9091	3,967,795
ST investment	2,385,845	2008	4,572,075	0.8264	3,778,574
Entity Value	65,705,360	2009	4,748,254	0.7513	3,567,434
		2010	4,868,000	0.6830	3,324,909
Debt	500,000	2011	4,937,811	0.6209	3,065,992
Capitalized Operating Lease	205,000	Continuing Value	72,656,367	0.6209	45,113,887
		(g=3%)			
Equity Value	65,000,360				
		Operating Value			62,818,591
Most Recent Share Outstanding	2,435,000	Mid-Year Adj Facto	r		1.0080
Value per Share	27	Operating Value (D	iscounted)		63,319,516
Most Recent Close Price	29.69				
Value Difference	11.22%				









Sensitivity Analysis

	P/E	P/CF	P/B
Past 4 yrs	22.37 – 68.09x	20.35 – 58.00x	8.89-17.40x
2007(F)	1.71	1.79	0.97
Target Price band	\$38-116	\$36.4-103.8	\$8.6-16.9

DCF Analysis

PV of forecasted Equity(\$ 000)	65,000,360
Most Recent Share Outstanding	2,435,000
WACC	10%
Target Price band	¢.27 . 20
<terminal growth="" rate(3.0%~4.0%)=""></terminal>	\$27 - 30







Buying Price : 27 Selling Point : It depends on Bush!!!





Jeff Wang







HEWLETT-PACKARD (NYSE: HPQ)

1 y Target Est*	33.82	Div& Yield	0.32 (0.90%)
Ask	N/A	EPS (ttm)	0.93
Bid	N/A	P/E (ttm)	36.96
Open	34.00	Market Cap	97.02B
Prev Close	34.05	Avg Vol (3m)	13,860,800
Change	+ 0.14 (0.41%)	Volume	11,826,000
Trade Time	Mar 2	52 wk Range	19.57-34.52
Last Trade	34.19	Day's Range	33.65-34.20

Source: Yahoo. Finance

Note: * estimated by Yahoo





HP's Profile



A leading global provider of products, technologies , solutions and services

History



Founded by William R. Hewlett & David Packard in 1939 in Palo Alto
First Product: an audio oscillator
First major customer: Walter Disney
Incorporated in 1947

Offerings

- •Enterprise storage and servers
- Multi-vender services:
- technology support & maintenance
- •Consulting, integration and managed services
- •Personal computing and other access devices
- •Imaging and printing-related products and service

Customers Individual consumers; small and medium sized businesses; large enterprises





Business Segments



- Enterprise Storage and Servers (ESS)
 - -- Industry Stand servers, Business Critical Servers
- HP Services (HPS)
 - -- Technology Services, Consulting and Integration, Managed services
- Software
 - -- Management Software Solutions
- Personal System Group (PSG)
 - -- Commercial PCs, Consumer PCs, Workstations, Handheld Computing, Digital Entertainment
- Imaging and Print Group (IPG)
 - -- Inject Printers, LaserJet Printers, Digital Photography and Entertainment, Graphics and Imaging, Printer Supplies
- HP Financial Services (HPFS)
 - -- Leasing, Financing, Utility Programs and Asset Recovery Services
- Corporate Investments
 - -- HP Labs, Business Incubation Projects



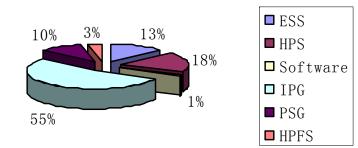


Business Segments



Each segment % of Total Net Revenue 100% 80% 60% 40% 20% 0% 2003 2004 2005 □ Cor. Investment 0.47% 0.55% 0.60% 2.60% 2.34% 2.39% ■ HPFS 30.59% 29.87% 28.64% ■ IPG 28.75% □ PSG 30.39% 30.44% □ Softwares 1.06% 1.15% 1.23% 16.81% 17.09% 17.69% ■ HPS **P**23 19 71% 18 61% 19 01%

2005 Each Segment % of Operating Earnings



Core Businesses: IPG, HPS, ESS, PSG

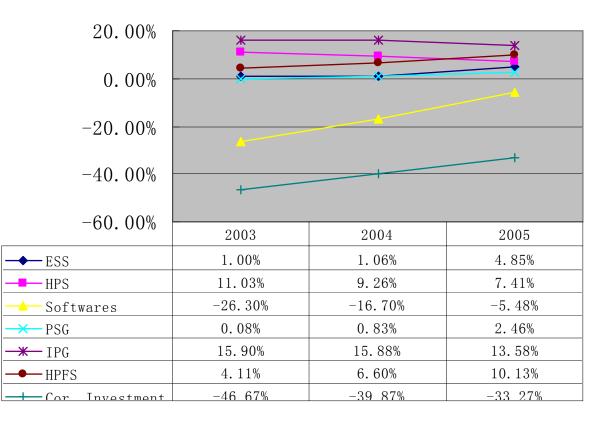




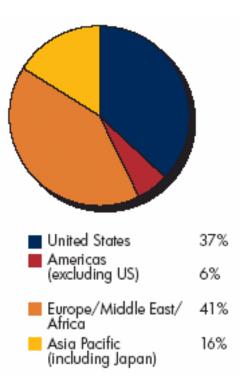
Business segments



Operating Margin of Segments



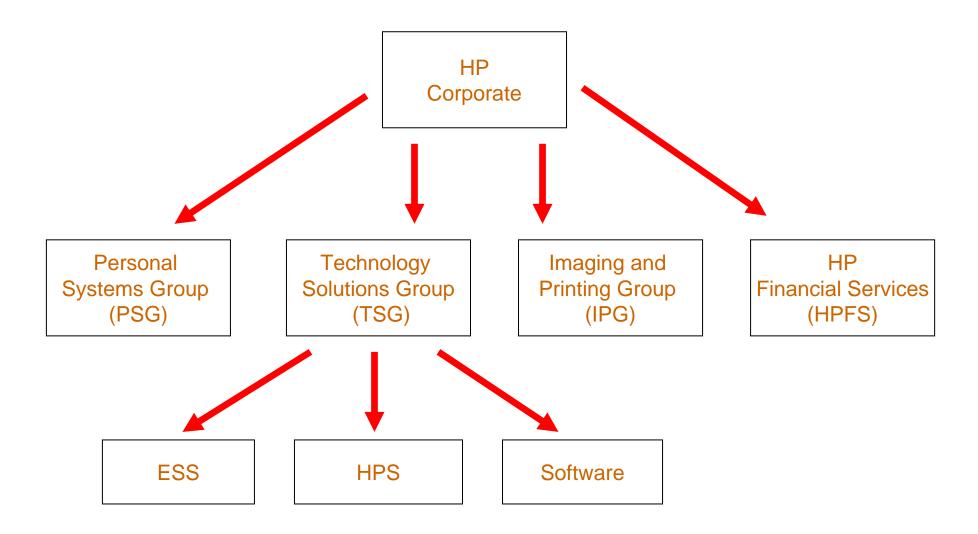
Revenue overview by region [% of total, fiscal year 2004]



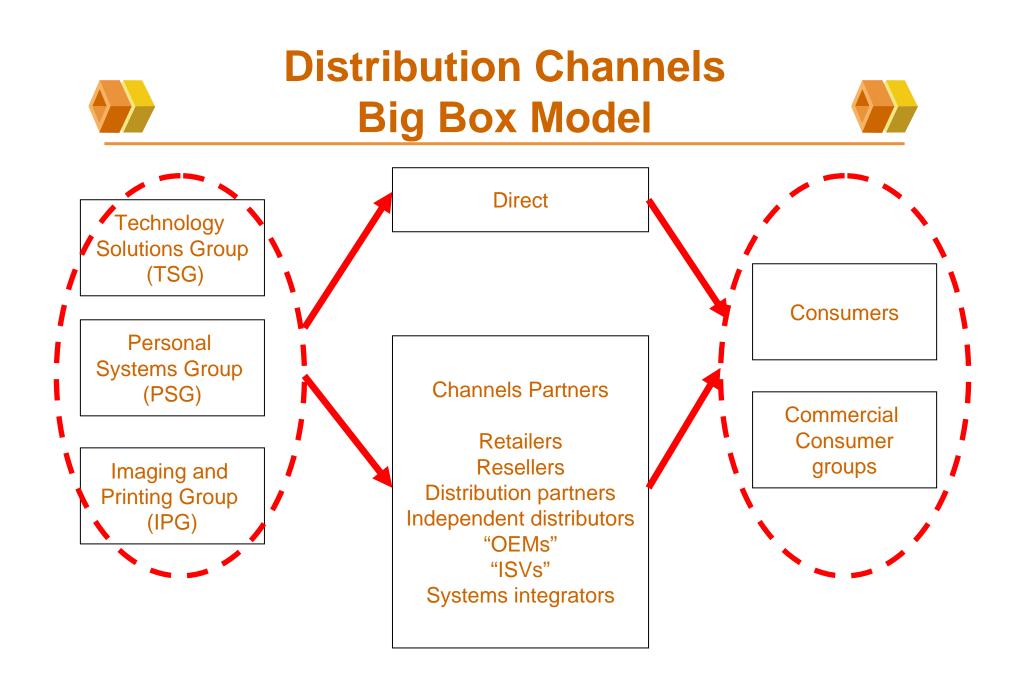
Source: HP 10-K Report 2005, P.131















Management





Mark V. Hurd; age 49; Chief Executive Officer and President

Mr. Hurd has served as Chief Executive Officer ("CEO"), President and a member of the Board of Directors since April 1, 2005. Prior to that, he served as Chief Executive Officer of NCR Corporation, a technology company ("NCR"), from March 2003 to March 2005 and as President of NCR from July 2001 to March 2005. From September 2002 to March 2003, Mr. Hurd was the Chief Operating Officer of NCR, and from July 2000 until March 2003 he was Chief Operating Officer of NCR's Teradata data— warehousing division. Mr. Hurd also served as an Executive Vice President of NCR from July 2000 through July 2001.





**

Management



Executive Team

»<u>Mark Hurd</u> Chief Executive Officer and President » <u>E-mail Mark</u> »<u>Ann O. Baskins</u> Senior Vice President, General Counsel and Secretary

»Gilles Bouchard Executive Vice President, Global Operations

»Todd Bradley Executive Vice President, Personal Systems Group

»<u>Vyomesh (VJ) Joshi</u> Executive Vice President, Imaging and Printing Group

»Ann M. Livermore Executive Vice President, Technology Solutions Group

»Cathy Lyons Executive Vice President and Chief Marketing Officer

»Randall (Randy) D. Mott Executive Vice President and Chief Information Officer

»<u>Marcela Perez de Alonso</u> Executive Vice President, Human Resources

»Shane V. Robison Executive Vice President and Chief Strategy and Technology Officer

»Robert P. Wayman Executive Vice President and Chief Financial Officer

»Jon Flaxman Senior Vice President and Controller of Accounting and Financial Reporting

»Richard H. (Dick) Lampman Senior Vice President of Research, HP, and Director, HP Labs Experienced
 Most of them familiar with HP
 A combination of inside and outside







HPQ's Recent Executive Hires/Appointments – Deepening The Bench

Senior VP	Software Division	110510005		
	within Technology Solutions Group	1/26/2006	President & CEO, Vignette; Senior VP, Worldwide Sales, Siekel Systems; Exec roles in sales, marketing and finance at IBM	Replaces former head of software Nora Denzel, who resigned in November 2005
Senior VP, WW Enterprise Sales	Imaging & Printing Group	1/17/2006	VP & GM, Printing Solutions & Services, Lexmark; Senior roles at NCR, AT&T, and Teradata	New role created to bring more focus to the printing and imaging opportunities in large enterprises
Senior VP, Chief Sales Officer	Technology Solutions Group	1/4/2006	President & CEO, Siemens Communications	New role created following the dissolution of the Customer Solutions Group in July 2005
Senior VP	H-P Services (Consulting & Integration)	12/2/2005	CEO, iEnergizer; CEO, North America, Capgemini; Senior positions in services at EDS	Coincided with H-P's increased discipline to balance profitability and growth in services
Executive VP, Chief Marketing Officer	None; direct report to CEO Mark Hurd	7/19/2005	Senior VP, Business and Imaging Printing, H-P; VP & GM, Inkjet Supplies Division, H-P; VP & GM, Supplies Division, H-P	Coincided with dissolution of Customer Solutions Group (CSG) and retirement of Mike Winkler, former EVP of CSG
Executive VP, Chief Information Officer	None; direct report to CEO Mark Hurd	7/11/2005	Senior VP and CIO, Dell; Senior VP and CIO, Wal-Mart Stores	Coincided with split of H-P's Global Ops (i.e., supply chain) and IT organization; Gilles Bouchard remains as EVP, Global Ops while Mott takes over CIO role
Executive VP	Personsal Systems Group	6/13/2005	President & CEO, palmOne; Executive VP, Global Operations, Gateway; Senior roles at GE Capital and FedEx	In conjunction with separating the Imaging & Printing and Personal Systems Group into standalone units (groups were combined in January 2005)
Senior VP	H-P Services	1/10/2005; promoted in July 2005	VP, Professional & Managed Services, Lucent; Head of global sales force, President of Asia- Pacific, and President of Western US, EDS	Hired to run H-P's Managed Services business in January 2005 under CEO Fiorina, but promoted to run entire Services unit by CEO Hurd in July 2005
	Enterprise Sales Senior VP, Chief Sales Officer Senior VP Executive VP, Chief Marketing Officer Executive VP, Chief Information Officer Executive VP	Enterprise Sales Group Senior VP, Chief Sales Officer Technology Solutions Group Senior VP H-P Services (Consulting & Integration) Executive VP, Chief Marketing Officer CEO Mark Hurd Officer Executive VP, Chief Information Officer Executive VP, Chief Information Officer Personsal Systems Group	Enterprise Sales Group Senior VP, Chief Technology Solutions 1/4/2006 Sales Officer Technology Solutions 1/4/2006 Senior VP H-P Services (Consulting & Integration) 12/2/2005 Executive VP, Chief Marketing Officer None; direct report to CEO Mark Hurd 7/19/2005 Executive VP, Chief Information Officer None; direct report to CEO Mark Hurd 7/11/2005 Executive VP, Chief Information Officer None; direct report to CEO Mark Hurd 7/11/2005 Executive VP Personsal Systems Group 6/13/2005 Senior VP H-P Services 1/10/2005; promoted in	Enterprise Sales Group Senior roles at NCR, AT&T, and Teradata Senior VP, Chief Sales Officer Technology Solutions Group 1/4/2006 President & CEO, Siemens Communications Senior VP H-P Services (Consulting & Integration) 12/2/2005 CEO, iEnergizer; CEO, North America, Capgemini; Senior positions in services at EDS Executive VP, Chief Marketing Officer None; direct report to CEO Mark Hurd 7/19/2005 Senior VP, Business and Imaging Printing, H-P; VP & GM, Inkjet Supplies Division, H-P; VP & GM, Supplies Division, H-P; Executive VP, Chief Information Officer None; direct report to CEO Mark Hurd 7/11/2005 Senior VP and CIO, Dell; Senior VP and CIO, Dell; Senior VP and CIO, Wal-Mart Stores Executive VP Personsal Systems Group 6/13/2005 President & CEO, palmOne; Executive VP, Global Operations, Gateway; Senior roles at GE Capital and FedEx Senior VP H-P Services 1/10/2005; promoted in VP, Professional & Managed Services, Lucent; Head of global sales force, President of Asia-

Source: Company report; Bear Stearns & Co.







Top Paid Executives Executive Name	Cash Compensation	Other Compensation	Total
Mark V. Hurd Chief Executive Officer and President	\$5,948,000	\$17,296,835	\$23,244,835
Carleton S. Fiorina Former Chairman and Chief Executive Officer	\$575,287	\$27,977,983	\$28,553,270
Robert P. Wayman Executive Vice President and Chief Financial Officer	\$5,488,688	\$2,270,658	\$7,759,346
Randall D. Mott Executive Vice President and Chief Information Officer	\$2,849,937	\$7,443,090	\$10,293,027
Vyomesh I. Joshi Executive Vice President Imaging and Printing Group	\$1,777,656	\$5,265,264	\$7,042,920
Ann M. Livermore Executive Vice President Technology Solutions Group	\$1,564,448	\$3,412,353	\$4,976,801
Michael J. Winkler Former Executive Vice President	\$2,512,617	\$1,822,016	\$4,334,633
R. Todd Bradley Executive Vice President Personal Systems Group	\$2,004,911	\$2,404,231	\$4,409,142

Source: CoreReference







The significant merger with Compaq

However, such strategy resulted in the sacrifice of margin and the continual restructuring ...





Merger with Compaq



Objective: Consolidation, not diversification,

Build the foundation of leadership in the market

To be.....



- No.1 in Wins, Linux, Unix
- No.1 player in storage and the leader in the storage area network
- Double service and support capacity
- Double sales force
- Gain access to new markets, such as fault-tolerant, some high-performance computing

----- Carly Fiorina, Former CEO, 2002







- Did the merger with Compaq work?
 -----measured by Carly's success criteria
- Bring the business together?
 Yes, but more diversified
- Achieve clear market leadership?
 Yes
- Provide a strong post-merger balance sheet?
 Yes
- Result in significant cost saving?
 No
- Smooth & effective integration?
 No





Competitors



- HP is the leader or among the leaders in each business segment
- The key competitors: IBM and Dell
- However, various competitors in each segment

ESS: IBM, EMC, Dell, Sun
HPS: IBM Global Services, Electronic Data System Co., Accenture
Software: BMC, Computer Associates International Inc. Mercury Interactive Co., IBM Tivoli Software
PSG: Dell, Toshiba, Apple, Lenovo, Gateway, Acer, Fujitsu, "white box"
IPG: Lexmark International, Xerox, Epson, Canon USA, Dell
HPFS: IBM Global Financing







Market Position

- #1 globally in the inkjet, all-in-one and single function printers, mono and color laser printers, large-format printing, scanners, print servers and ink and laser supplies*
- #1 globally in x86, Windows®, Linux and UNIX servers*
- #1 in total disk and storage systems*
- #2 globally in notebook PCs, Pocket PCs, workstations and blade servers*
- Awarded Outstanding Customer Service for Consumers**
- #1 position in server brand loyalty for ProLiant servers***
- #1 in computer and peripherals industry for intangible value analysis reporting — including governance, human capital and emerging market issues — by Innovest Strategic Value Advisors, Inc., a leading independent research firm for the SRI community. HP ranked fifth for environmental reporting.
 - * Refers to revenue, except storage referred to in units. Source: IDC Q3 2005.
 - ** Source: J.D. Power and Associates, November 2005
 - *** Source: Technology Business Research, Inc., Q3 2005







Strengths:

- ESS: broad portfolio of servers and storage products, global reach, significant intellectual property and R&D capabilities
- HPS: global delivery organization, technical expertise, diagnostic and IT management tools, flexibility of services
- Software: N/A
- PSG: broad portfolio, innovation and R&D capabilities, global distribution network
- IPG: brand recognition, reputation for quality, breath of product offerings, large customer base
- HPFS: ability to finance products, services and total solutions

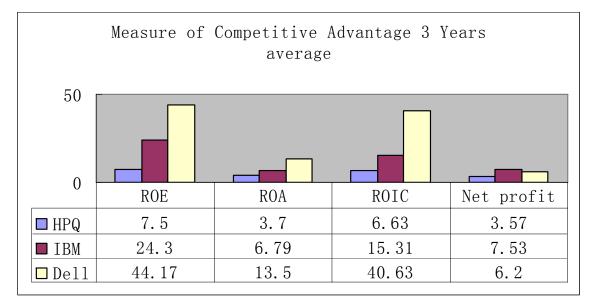






Weakness:

Lower profitability







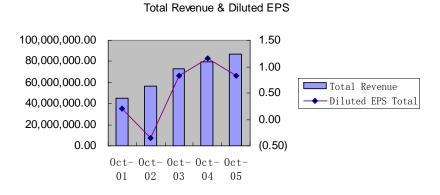


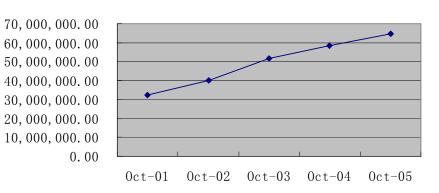


- Commoditized Market
- Competition
- Channel conflict
- Changing technology
- Fluctuation of currency exchange rate
- Uncertainty of restructuring—cost cutting

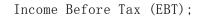


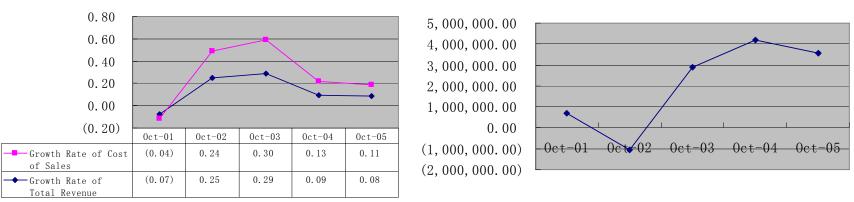
Analysis of Income Statement





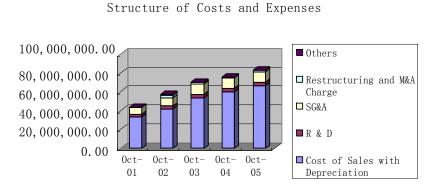
Cost of Sales



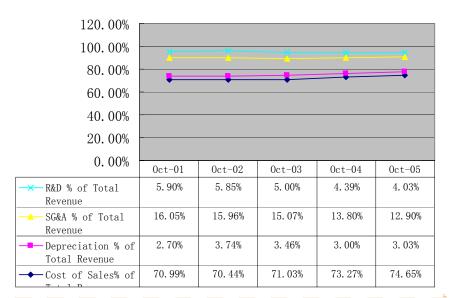




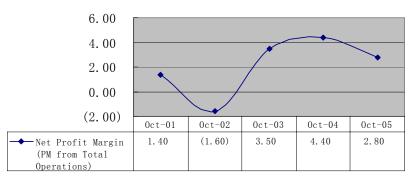
Analysis of Income Statement



	FY2001	FY2002	FY2003	FY2004	FY2005
Annual Dividen d	0.32\$	0.32\$	0.32\$	0.32\$	0.32\$









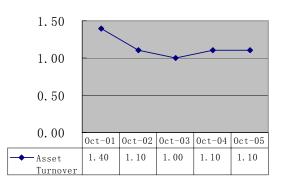
Income Statement



	Oct-05	Oct-04	Oct-03	Oct-02	Oct-01
Operating Revenue	86,696,000.00	79,905,000.00	73,061,000.00	56,588,000.00	45,226,000.00
Total Revenue	86,696,000.00	79,905,000.00	73,061,000.00	56,588,000.00	45,226,000.00
Adjustment to Revenue	0.00	0.00	0.00	0.00	0.00
Cost of Sales	64,718,000.00	58,548,000.00	51,893,000.00	39,862,000.00	32,105,000.00
Cost of Sales with Depreciation	66,440,000.00	60,340,000.00	53,857,000.00	41,579,000.00	33,474,000.00
Gross Margin	0.00	0.00	0.00	0.00	11,752,000.00
Gross Operating Profit	21,978,000.00	21,357,000.00	21,168,000.00	16,726,000.00	13,121,000.00
R & D	3,490,000.00	3,506,000.00	3,652,000.00	3,312,000.00	2,670,000.00
SG&A	11,184,000.00	11,024,000.00	11,012,000.00	9,033,000.00	7,259,000.00
Advertising	0.00	0.00	0.00	0.00	0.00
Operating Profit	3,473,000.00	4,227,000.00	2,896,000.00	(1,012,000.00)	1,439,000.00
Operating Profit b/f Depreciation	7,304,000.00	6,827,000.00	6,504,000.00	4,381,000.00	3,192,000.00
Depreciation	2,344,000.00	2,395,000.00	2,527,000.00	2,119,000.00	1,369,000.00
Depreciation Unreconciled	0.00	0.00	0.00	0.00	0.00
Amortization	0.00	0.00	0.00	0.00	0.00
Amortization of Intangibles	622,000.00	603,000.00	563,000.00	402,000.00	0.00
Operating Income After Depreciation	4,960,000.00	4,432,000.00	3,977,000.00	2,262,000.00	1,823,000.00
Interest Income	189,000.00	35,000.00	21,000.00	52,000.00	171,000.00
Earnings from Equity Interest	0.00	0.00	0.00	0.00	0.00
Other Income, Net	(13,000.00)	4,000.00	(29,000.00)	0.00	0.00
Income Acquired in Process R&D	(2,000.00)	(37,000.00)	(1,000.00)	(793,000.00)	0.00
Income Restructuring and M&A	(1,684,000.00)	(168,000.00)	(1,080,000.00)	(2,481,000.00)	(384,000.00)
Other Special Charges	93,000.00	(70,000.00)	0.00	(92,000.00)	(908,000.00)
Total Income Avail for Interest Expense (EBIT);	3,543,000.00	4,196,000.00	2,888,000.00	(1,052,000.00)	702,000.00
Interest Expense	0.00	0.00	0.00	0.00	0.00
Income Before Tax (EBT);	3,543,000.00	4,196,000.00	2,888,000.00	(1,052,000.00)	702,000.00
Income Taxes	1,145,000.00	699,000.00	349,000.00	(129,000.00)	78,000.00
Minority Interest	0.00	0.00	0.00	0.00	0.00
Preferred Securities of Subsidiary Trust	0.00	0.00	0.00	0.00	0.00
Net Income from Continuing Operations	2,398,000.00	3,497,000.00	2,539,000.00	(923,000.00)	624,000.00
Net Income from Discontinued Ops.	0.00	0.00	0.00	0.00	0.00
Net Income from Total Operations	2,398,000.00	3,497,000.00	2,539,000.00	(923,000.00)	624,000.00
Extraordinary Income / Losses	0.00	0.00	0.00	0.00	0.00
Income from Cum. Effect of Acct Chg	0.00	0.00	0.00	0.00	(272,000.00)
Income from Tax Loss Carryforward	0.00	0.00	0.00	0.00	0.00
Other Gains (Losses);	0.00	0.00	0.00	20,000.00	56,000.00
Total Net Income	2,398,000.00	3,497,000.00	2,539,000.00	(903,000.00)	408,000.00
Normalized Income	3,991,000,00	3,772,000.00	3,620,000.00	2,443,000.00	1,916,000.00

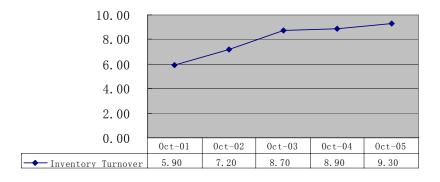


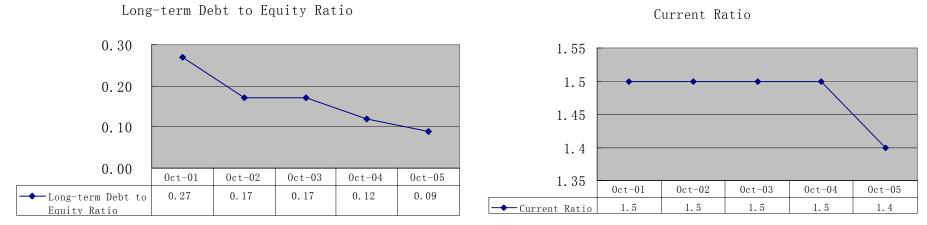




Asset Turnover Ratio



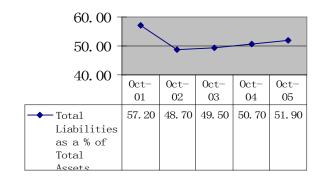




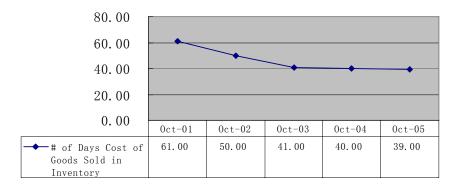




Total Liabilities as a % of Total Assets



of Days Cost of Goods Sold in Inventory







Balance Sheet (Assets)

	Oct-05	Oct-04	Oct-03	Oct-02	Oct-01
Assets					
Cash and Equivalents	13,911,000.00	12,663,000.00	14,188,000.00	11,192,000.00	4,197,000.00
Restricted Cash	0.00	0.00	0.00	0.00	0.00
Marketable Securities	18,000.00	311,000.00	403,000.00	237,000.00	139,000.00
Accounts Receivable	9,903,000.00	10,226,000.00	8,921,000.00	8,456,000.00	4,488,000.00
Loans Receivable	0.00	0.00	0.00	0.00	0.00
Other Receivable	7,461,000.00	7,784,000.00	2,965,000.00	3,453,000.00	2,183,000.00
Receivables	17,364,000.00	18,010,000.00	11,886,000.00	11,909,000.00	6,671,000.00
Inventories	6,877,000.00	7,071,000.00	6,065,000.00	5,797,000.00	5,204,000.00
Prepaid Expenses	1,552,000.00	0.00	0.00	0.00	0.00
Current Deferred Income Taxes	3,612,000.00	3,744,000.00	0.00	0.00	0.00
Other Current Assets	0.00	1,102,000.00	8,454,000.00	6,940,000.00	5,094,000.00
Total Current Assets	43,334,000.00	42,901,000.00	40,996,000.00	36,075,000.00	21,305,000.00
Gross Fixed Assets (Plant, Prop. & Equip.)	13,880,000.00	13,836,000.00	13,299,000.00	12,536,000.00	9,808,000.00
Accumulated Depreciation & Depletion	7,429,000.00	7,187,000.00	6,817,000.00	5,612,000.00	5,411,000.00
Net Fixed Assets	6,451,000.00	6,649,000.00	6,482,000.00	6,924,000.00	4,397,000.00
Intangibles	20,030,000.00	19,931,000.00	19,250,000.00	19,951,000.00	0.00
Cost in Excess	0.00	0.00	0.00	0.00	0.00
Non-Current Deferred Income Taxes	0.00	0.00	0.00	0.00	0.00
Other Non-Current Assets	7,502,000.00	6,657,000.00	7,980,000.00	7,760,000.00	6,882,000.00
Total Non Current Assets	33,983,000.00	33,237,000.00	33,712,000.00	34,635,000.00	11,279,000.00
Total Assets	77,317,000.00	76,138,000.00	74,708,000.00	70,710,000.00	32,584,000.00





Balance Sheet (Liabilities)



	Oct-05	Oct-04	Oct-03	Oct-02	Oct-01
Liabilities					
Accounts Payable	10,223,000.00	9,377,000.00	9,285,000.00	7,012,000.00	3,791,000.00
Notes Payable	1,831,000.00	2,511,000.00	1,080,000.00	1,793,000.00	1,722,000.00
Short Term Debt	0.00	0.00	0.00	0.00	0.00
Accrued Expenses	0.00	0.00	0.00	0.00	0.00
Accrued Liabilities	10,881,000.00	9,825,000.00	9,254,000.00	8,704,000.00	3,289,000.00
Deferred Revenues	3,815,000.00	2,958,000.00	3,657,000.00	3,260,000.00	1,867,000.00
Current Deferred Income Taxes	0.00	0.00	0.00	0.00	0.00
Other Current Liabilities	4,710,000.00	3,917,000.00	3,354,000.00	3,541,000.00	3,295,000.00
Total Current Liabilities	31,460,000.00	28,588,000.00	26,630,000.00	24,310,000.00	13,964,000.00
Long Term Debt	3,392,000.00	4,623,000.00	6,494,000.00	6,035,000.00	3,729,000.00
Capital Lease Obligations	0.00	0.00	0.00	0.00	0.00
Deferred Income Taxes	0.00	0.00	0.00	0.00	0.00
Other Non-Current Liabilities	5,289,000.00	5,363,000.00	3,838,000.00	4,103,000.00	938,000.00
Minority Interest	0.00	0.00	0.00	0.00	0.00
Preferred Securities of Subsidiary Trust	0.00	0.00	0.00	0.00	0.00
Preferred Equity outside Stock Equity	0.00	0.00	0.00	0.00	0.00
Total Non-Current Liabilities	8,681,000.00	9,986,000.00	10,332,000.00	10,138,000.00	4,667,000.00
Total Liabilities	40,141,000.00	38,574,000.00	36,962,000.00	34,448,000.00	18,631,000.00
Preferred Stock Equity	0.00	0.00	0.00	0.00	0.00
Common Stock Equity	37,176,000.00	37,564,000.00	37,746,000.00	36,262,000.00	13,953,000.00
Common Par	28,000.00	29,000.00	30,000.00	30,000.00	19,000.00
Additional Paid In Capital	20,490,000.00	22,129,000.00	24,587,000.00	24,660,000.00	200,000.00
Cumulative Translation Adjustment	0.00	30,000.00	0.00	0.00	0.00
Retained Earnings	16,679,000.00	15,649,000.00	13,332,000.00	11,973,000.00	13,693,000.00
Treasury Stock	0.00	0.00	0.00	0.00	0.00
Other Equity Adjustments	(21,000.00)	(273,000.00)	(203,000.00)	(401,000.00)	41,000.00
Total Capitalization	40,568,000.00	42,187,000.00	44,240,000.00	42,297,000.00	17,682,000.00
Total Equity	37,176,000.00	37,564,000.00	37,746,000.00	36,262,000.00	13,953,000.00
Total Liabilities & Stock Equity	77,317,000.00	76,138,000.00	74,708,000.00	70,710,000.00	32,584,000.00
Additional Data					
Cash Flow	4,742,000.00	5,892,000.00	5,066,000.00	1,196,000.00	1,993,000.00
Working Capital	11,874,000.00	14,313,000.00	14,366,000.00	11,765,000.00	7,341,000.00
Free Cash Flow	4,466,000.00	866,000.00	2,936,000.00	2,933,000.00	413,000.00
Invested Capital	40,568,000.00	42,187,000.00	44,240,000.00	42,297,000.00	17,682,000.00
Share Data					
Shares Outstanding Common Class Only	2,837,000.00	2,911,000.00	3,043,000.00	3,049,000.00	1,939,000.00
Preferred Shares	0.00	0.00	0.00	0.00	0.00
Total Ordinary Shares	0.00	0.00	0.00	0.00	0.00
Total Common Shares Outstanding	2,837,000.00	2,911,000.00	3,043,000.00	3,049,000.00	1,939,000.00



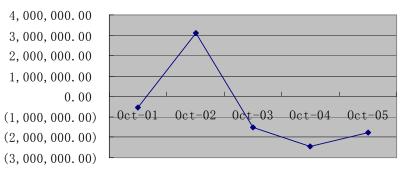
Analysis of Cash Flow



10,000,000.00 8,000,000.00 6,000,000.00 4,000,000.00 2,000,000.00 0.00 0ct-01 0ct-02 0ct-03 0ct-04 0ct-05

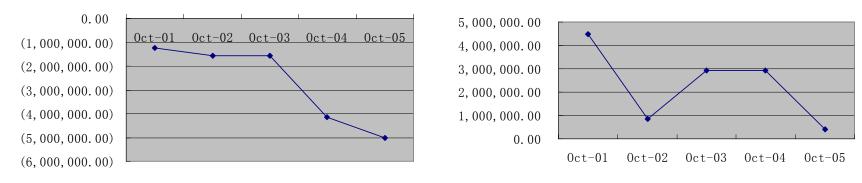
Net Cash from Operating Activities

Net Cash from Investing Activities



Free Cash Flow

Net Cash from Financing Activities



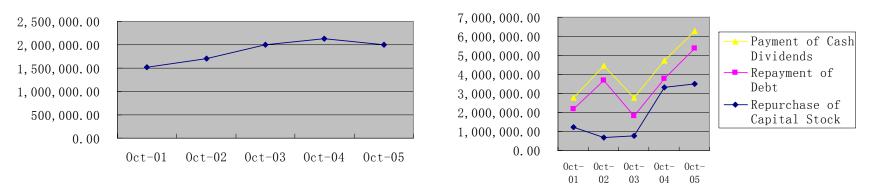




Analysis of Cash Flow



Purchase of Property, Plant, Equipment







Statement of Cash Flow



	Oct-05	Oct-04	Oct-03	Oct-02	Oct-01
Operating Activities					
Net Income (Loss)	2,398,000.00	3,497,000.00	2,539,000.00	(903,000.00)	408,000.0
Depreciation	2,344,000.00	2,395,000.00	2,527,000.00	2,119,000.00	1,369,000.0
Amortization	0.00	0.00	0.00	0.00	0.0
Amortization of Intangibles	0.00	0.00	0.00	0.00	0.0
Deferred Income Taxes	(162,000.00)	26,000.00	(279,000.00)	(351,000.00)	(970,000.0
Operating (Gains) Losses	1,864,000.00	670,000.00	1,627,000.00	4,039,000.00	1,178,000.0
Extraordinary (Gains) Losses	0.00	0.00	0.00	0.00	0.0
Changes in Working Capital					
(Increase) Decrease in Receivables	666,000.00	(696,000.00)	197,000.00	899,000.00	566,000.0
(Increase) Decrease in Inventories	(208,000.00)	(1,341,000.00)	(638,000.00)	765,000.00	1,096,000.0
(Increase) Decrease in Prepaid Expenses	0.00	0.00	0.00	0.00	0.0
(Increase) Decrease in Other Current Assets	0.00	0.00	0.00	0.00	0.0
(Increase) Decrease in Payables	846,000.00	3,000.00	2,257,000.00	395,000.00	(1,249,000.0
(Increase) Decrease in Other Curr Liabs.	501,000.00	(633,000.00)	53,000.00	(368,000.00)	(195,000.0
(Increase) Decrease in Other Working Capital	(221,000.00)	1,078,000.00	(2,314,000.00)		
Other Non-Cash Items	0.00	89,000.00	88,000.00	138,000.00	(4,000.0
Net Cash from Continuing Operations	8,028,000.00	5,088,000.00	6,057,000.00	5,444,000.00	2,561,000.0
Net Cash from Discontinued Operations	0.00	0.00	0.00	0.00	0.0
Net Cash from Operating Activities	8,028,000.00	5,088,000.00	6,057,000.00	5,444,000.00	2,561,000.0
Investing Activities	0,020,000.00	0,000,000.00	0,001,000.000	0,111,000100	2,001,00010
Sale of Property, Plant, Equipment	542,000.00	447,000.00	353,000.00	362,000.00	447,000.0
Sale of Long Term Investments	0.00	0.00	0.00	0.00	0.0
Sale of Short Term Investments	2,066,000.00	1,064,000.00	875,000.00	381,000.00	742,000.0
Purchase of Property, Plant, Equipment	(1,995,000.00)	(2,126,000.00)	(1,995,000.00)	(1,710,000.00)	(1,527,000.0
Acquisitions	(641,000.00)		(149,000.00)	0.00	0.0
Purchase of Long Term Investments	0.00	0.00	0.00	0.00	0.0
Purchase of Short Term Investments	(1,729,000.00)	(715,000.00)	(596,000.00)	(351,000.00)	(434,000.0
Other Investing Changes Net	0.00	0.00	0.00	4,436,000.00	223,000.0
Cash from Disc. Investing Activities	0.00	0.00	0.00	0.00	0.0
Net Cash from Investing Activities	(1,757,000.00)	(2,454,000.00)	(1,512,000.00)	3,118,000.00	(549,000.0
Financing Activities	(1,757,000.00)	(2,434,000.00)	(1,512,000.00)	3,110,000.00	(343,000.0
Issuance of Debt	84,000.00	9,000.00	749,000.00	2,529,000.00	1,207,000.0
Issuance of Capital Stock	1,161,000.00	570,000.00	482,000.00	377,000.00	354,000.0
Cash Used for	1,101,000.00	570,000.00	402,000.00	377,000.00	354,000.0
Repayment of Debt	(1,828,000.00)	(457,000.00)	(1,052,000.00)	(3,001,000.00)	(930,000.0
Repurchase of Capital Stock		(3,309,000.00)	· · · /	(· · · / /	(1,240,000.0
Payment of Cash Dividends	(3,514,000.00)		(751,000.00)	(671,000.00)	
	(926,000.00)	(972,000.00)			· ·
Other Financing Charges, Net	0.00	0.00	0.00	0.00	0.0
Cash from Disc. Financing Activities	0.00	0.00	0.00	0.00	0.0
Net Cash from Financing Activities	(5,023,000.00)	(4,159,000.00)	(1,549,000.00)	(1,567,000.00)	(1,230,000.0
Effect of Exchange Rate Changes	0.00	0.00	0.00	0.00	0.0
Net Change in Cash & Cash Equivalents	1,248,000.00	(1,525,000.00)	2,996,000.00	6,995,000.00	782,000.0
Cash at Beginning of Period	12,663,000.00	14,188,000.00		4,197,000.00	3,415,000.0
Cash at End of Period	13,911,000.00	12,663,000.00	14,188,000.00	11,192,000.00	4,197,000.0







- Superiority in Production, Marketing, Research and Financial skills
 Broad portfolio, strong market position, strong R&D
- The People Factor

Strong executive team: a combination of new & old

Investment characteristics of some businesses

Diversified, continually evolving, but not very profitable

Price of the investment

High: current stock price 34.19\$ 52 wk range: 19.57- 34.52\$



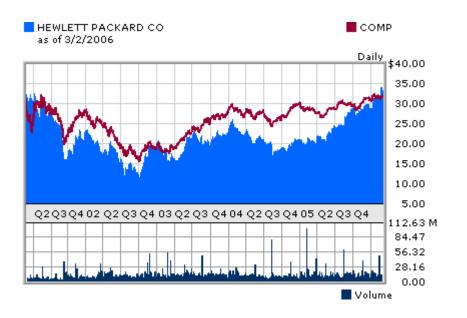




	P/E	P/CF	P/S
Last 3 yrs range	34.2-16.2 x	16.8-9.2 x	0.92-0.68 x
Target price range	28.04-13.28 \$	32.42-17.76 \$	27.3-19.96 \$

Source: CoreReference





Source: www. hp. com





Q1FY06 Upside



US\$ in millions, unless otherwise stated

	FQ106		FQ405	FQ105	
Revenue	Actuals Est.				
Personal Systems	\$7,449	\$7,230	\$7,113	\$6,873	
Operating Margin	3.9%	3.0%	2.8%	2.1%	
Imaging & Printing	6,545	6,356	6,785	6,067	
Operating Margin	14.9%	13.2%	13.2%	15.4%	
Enterprise Systems	4,240	4,216	4,471	4,047	
Operating Margin	7.7%	6.0%	9.0%	1.8%	
Services	3,757	3,979	3,900	3,815	
Operating Margin	7.8%	8.3%	8.3%	7.4%	
Software	304	260	311	240	
Operating Margin	3.0%	-10.0%	9.2%	-16.9%	
Financing	496	566	514	555	
Operating Margin	7.7%	10.0%	10.1%	8.1%	
Corporate Investments	129	140	142	115	
Eliminations	(261)	(260)	(323)	(258)	
Total Revenue	22,659	22,487	22,914	21,454	
Gross Margin	23.2%	23.1%	23.5%	22.9%	
Operating Margin	7.5%	7.1%	7.6%	6.2%	
EPS	\$ 0.48	\$0.44	\$ 0.48	\$ 0.32	
EPS (ex Options)	\$ 0.52	\$0.47	\$ 0.51	\$ 0.37	

Source: Company data, Credit Suisse estimates





- Very strong market position with lower margin
- Stock price at the high end of the last 5 years
- Positive signs: *turnaround*?
 - + improved margin in Q106 (YoY)
 - + increasing restructuring-related cost savings
 - + high expectation for the current executive team

Recommendation based on fundamental analysis:

Hold















- Incorporated in 1977
- Steve Jobs & Steve Wozniak



Apple][+ (1978, \$1,195) - 48K RAM, included a Basic in the ROM written by a new company called Microsoft.



Macintosh (1984, \$2,495) - the first affordable computer to include a Graphical User Interface. It was built around the new Motorola 68000 chip, It originally sold for \$2,495.

> On January 24th, Apple Computer will introduce Macintosh. And you'll see why 1984 won't be like "1984"







	Hardware Products				
Desktops	iMac, Mac mini, Power Mac, eMac				
Portables	iBook, PowerBook				
Servers	Xserver, Xserver RAID				
Digital Life	AirPort Express, Airport Extreme, iSight, Mighty Mouse				
Displays	Apple Cinema Display 20, 23, 30-inch				
Music Products and Services					
iPod, iPod nano, iPod shuffle					
iTune Music	Stores				









	Software Products
Operating System	Mac OS X Tiger
Server Solutions	Apple Remote Desktop 2 Xsan
Professional Applications	Aperture, Logic Pro 7, Shake 4 Final Cut Studio – Final Cut Pro 5, Soundtrack Pro, Motion 2, DVD Studio Pro 4
Consumer oriented Applications	iLife – iPhoto, iWeb, iMovie HD, iDVD, GarageBand iWork – Keynote 3, Pages
Other Applications	AppleWorks, FileMaker, FileMaker Server Final Cut Express HD, Logic Express
Internet Software and Services	Safari (web browser), QuickTime 7 .Mac (iWeb Publishing, Photocasting, iDisk, Sync, Mail, Backup, Groups)
Product Support and Services	AppleCare, AppleCare Protection Plan







Digital Hub	Expanded Distribution
 PC becomes digital hub of MP3 players, PDAs, cellular phones, digital camcorders, digital cameras, CD/DVD players, TV Apple is the ONLY company in the PC industry that controls the design and development of the entire PC 	 Knowledgeable salespersons Apple Sales Consultant Program (for resellers) Apple-Owned Retail Stores since 2001 Total 135 (US 124, Japan 6, UK 4, Toronto 1)

Creative Professionals	Education
 One of Apple's most important markets Including video, film production, special effects, photography, publishing, music creation, web design 	 Provide products and services that are designed to meet the needs of education customers





SWOT Analysis



Strengths	Weaknesses
Premium Brand Name	Cannibalization
R&D	Supply of key components
Customer Retention	Reliance on US market
Opportunities	Threats
New Products Development	Strong Competition
Expand Retail operations	US Education Market
Expand Global Markets	
iTune Music Store	



Steve Jobs & Apple



- Net worth: \$7.78 billion (Feb,2006)
- Well known by his aggressive and demanding personality



May 7, 1998



Oct 24, 2005

- 1955 Born in San Francisco
 - 1976 Co-founded Apple
 - 1983 Invited John Sculley to serve as CEO
- 1985 Left Apple, founded "NeXT"
- 1997 Apple bought NeXT and Jobs again became Apple's CEO
- 1998 Launched iMac and saved Apple
- Guinness World Records "Lowest Paid CEO" (\$1/year since 1997)
- However he has received many "executive gifts" from the board (\$90M jet in 2001, 30M shares of restricted stocks in 2000~2002)
- 2005 Cover story on TIME Magazine seems like a selling signal





The Management Team

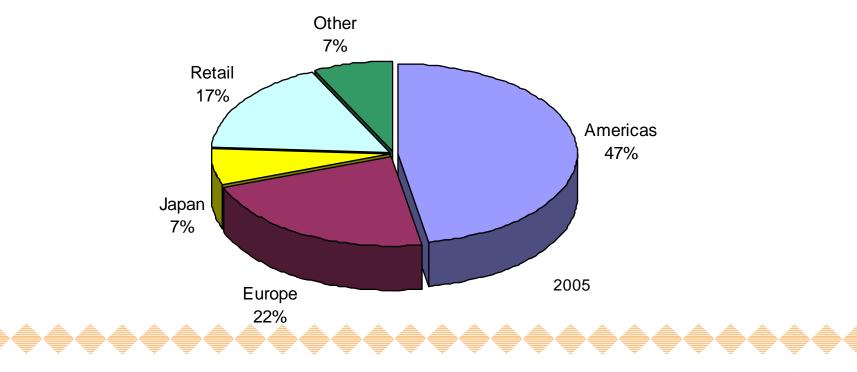


Steve Jobs CEO, Apple CEO, Pixar	Jon Rubinstein Senior Vice President iPod Division Age 49 (1997) NeXT
Timothy D. Cook Chief Operating Officer Age 45 (1998)	Philip W. Schiller Senior Vice President Worldwide Product Marketing Age 45 (rejoin in 1997)
Nancy R. Heinen Senior Vice President and General Counsel Age 49 (1997) NeXT	Bertrand Serlet Senior Vice President Software Engineering Age 44 (1997) NeXT
Ron B. Johnson Senior Vice President Retail Age 47 (2000)	Sina Tamaddon Senior Vice President Applications Age 48 (1997) NeXT
Peter Oppenheimer Senior Vice President and Chief Financial Officer Age 42 (1996)	Avadis "Avie" Tevanian, Jr., PH.D Chief Software Technology Officer Age 44 (1997) NeXT



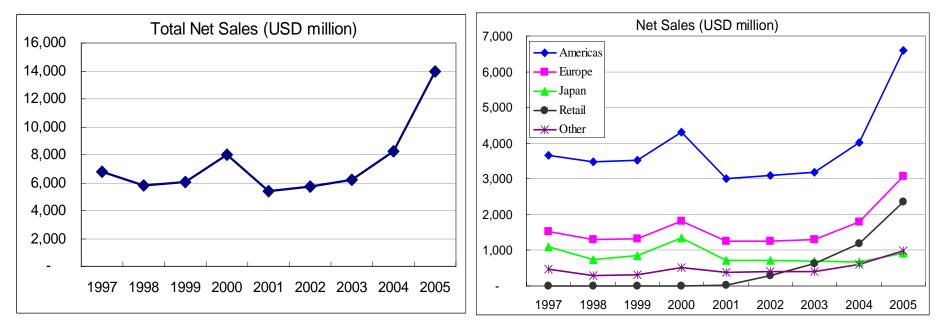
Net Sales (Operating Segment)

Apples' 5 reportable operating segments								
Americas: North & South America								
Europe: Europe, Middle East, Africa								
Japan								
Retail: Apple-Owned 135 retail stores								
Other: Asia-Pacific ex Japan, FileMaker								

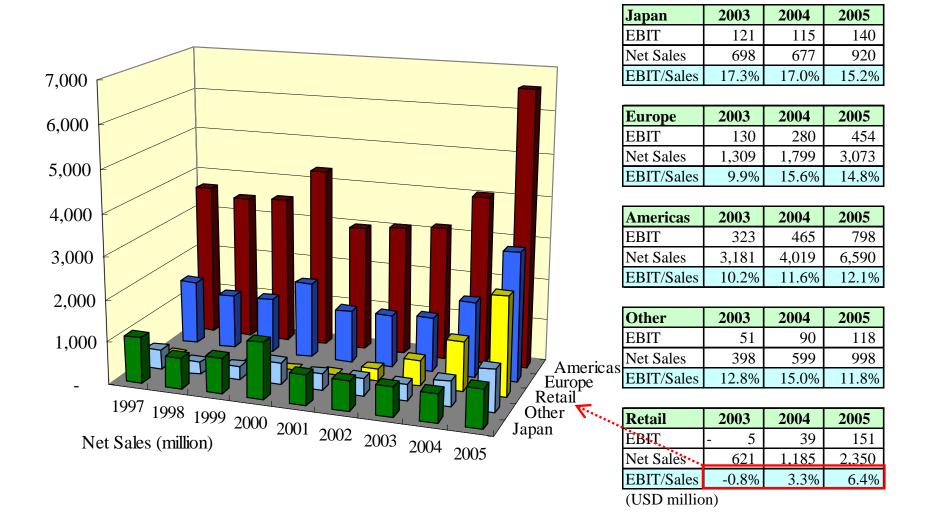


Net Sales (Operating Segment)

Net Sales (million)									
	1997	1998	1999	2000	2001	2002	2003	2004	2005
Americas	3,668	3,468	3,527	4,298	2,996	3,088	3,181	4,019	6,590
Europe	1,536	1,295	1,317	1,817	1,249	1,251	1,309	1,799	3,073
Japan	1,098	731	858	1,345	713	710	698	677	920
Retail	-	-	-	-	19	283	621	1,185	2,350
Other	472	293	306	523	386	410	398	599	998
Total	6,774	5,787	6,008	7,983	5,363	5,742	6,207	8,279	13,931



Margin Analysis (by Segment)





Apple-Owned Retail Stores

- They are designed and built to serve as high profile venues that function as vehicles for general corporate marketing, corporate events, and brand awareness
- Operating lease terms generally 10 years, total remaining commitments per store from \$4 to \$46 million





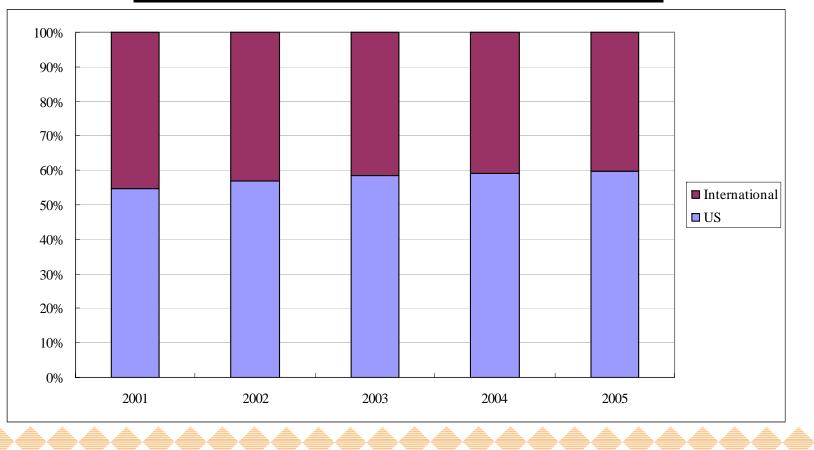


Net Sales (US vs. Int'l)



Net Sales	(USD	million)
	(/

	2001	2002	2003	2004	2005
US	2,936	3,272	3,626	4,893	8,334
International	2,427	2,470	2,581	3,386	5,597
Total	5,363	5,742	6,207	8,279	13,931





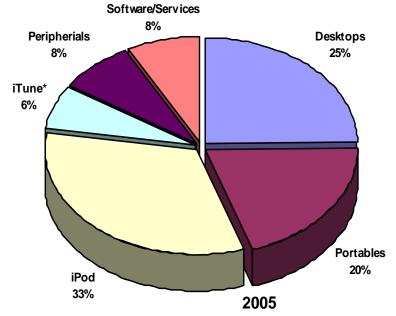
Net Sales (By Product)



•	2001 2002		2003	2004	2005	
Desktops	2,781	2,828	2,475	2,373	3,436	
Portables	1,622	1,706	2,016	2,550	2,839	
iPod	-	143	345	1,306	4,540	
iTune*	-	4	36	278	899	
Peripherials	387	527	691	951	1,126	
Software/Services	573	534	644	821	1,091	
Total Net Sales	5,363	5,742	6,207	8,279	13,931	

Net Sales By Product (USD million)

* including iPod services and iPod accessories







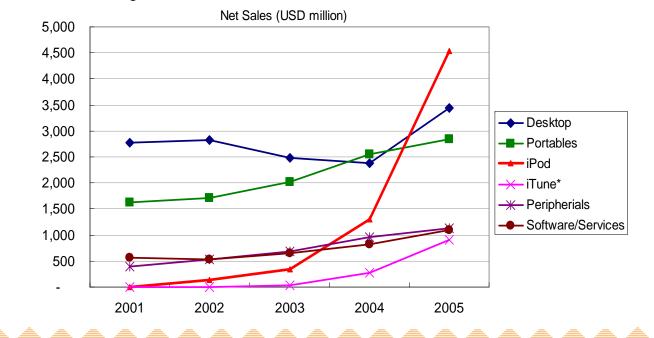
Net Sales (By Product)



Net Sales By Product (USD million)								
	2001	2002	2003	2004	2005			
Desktops	2,781	2,828	2,475	2,373	3,436			
Portables	1,622	1,706	2,016	2,550	2,839			
iPod	-	143	345	1,306	4,540			
iTune*	-	4	36	278	899			
Peripherials	387	527	691	951	1,126			
Software/Services	573	534	644	821	1,091			
Total Net Sales	5,363	5,742	6,207	8,279	13,931			

Net Sales By Product (USD million)

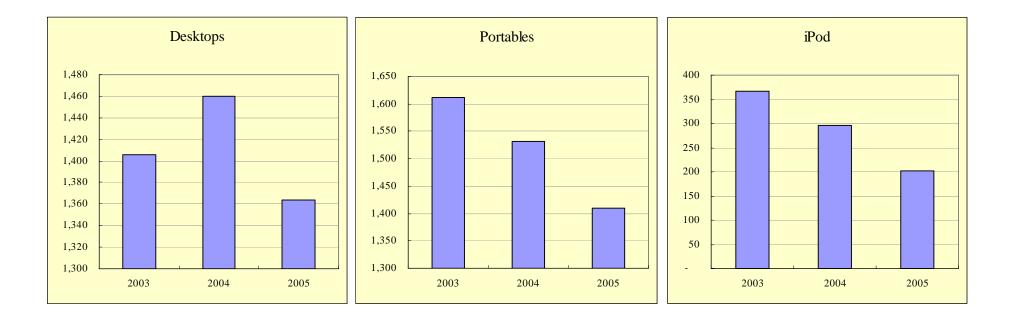
* including iPod services and iPod accessories



Net Sales (Per Unit)



Net Sales (USD million)				Unit Sales by Product (thousands)				Net Sales (USD per unit)			
	2003	2004	2005		2003	2004	2005		2003	2004	2005
Desktops	2,475	2,373	3,436	Desktops	1,761	1,625	2,520	Desktops	1,405	1,460	1,363
Portables	2,016	2,550	2,839	Portables	1,251	1,665	2,014	Portables	1,612	1,532	1,410
iPod	345	1,306	4,540	iPod	939	4,416	22,497	iPod	367	296	202







Balance Sheet



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USD (thousand)

	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Assets										
Current Assets:										
Cash and Equivalents	3,491,000	2,969,000	3,396,000	2,252,000	2,310,000	1,191,000	1,326,000	1,481,000	1,230,000	1,552,000
Short-Term Investment	4,770,000	2,495,000	1,170,000	2,085,000	2,026,000	2,836,000	1,900,000	819,000	229,000	193,000
Accounts Receivable	895,000	774,000	766,000	565,000	466,000	953,000	681,000	955,000	1,035,000	1,496,000
Inventories	165,000	101,000	56,000	45,000	11,000	33,000	20,000	78,000	437,000	662,000
Current Deferred Income Taxes	331,000	231,000	190,000	166,000			143,000	182,000	259,000	342,000
Other Current Assets	648,000	485,000	309,000	275,000	161,000	252,000	215,000	183,000	234,000	270,000
Total Current Assets	10,300,000	7,055,000	5,887,000	5,388,000	5,143,000	5,427,000	4,285,000	3,698,000	3,424,000	4,515,000
Gross Fixed Assets (Plant, Prop. & Equip.)	1,481,000	1,298,000	1,174,000	1,057,000	924,000	700,000	729,000	824,000	1,195,000	1,348,000
Accumulated Depreciation & Depletion	664,000	591,000	505,000	436,000	360,000	387,000	411,000	476,000	709,000	750,000
Net Fixed Assets	817,000	707,000	669,000	621,000	564,000	313,000	318,000	348,000	486,000	598,000
Goodwill	69,000	80,000	85,000	85,000						
Accquired Intangible Assets, Net	27,000	17,000	24,000	34,000						
Other Assets	338,000	191,000	150,000	170,000	314,000	1,063,000	558,000	243,000	323,000	251,000
Total Non Current Assets	1,251,000	995,000	928,000	910,000	878,000	1,376,000	876,000	591,000	809,000	849,000
Total Assets	11,551,000	8,050,000	6,815,000	6,298,000	6,021,000	6,803,000	5,161,000	4,289,000	4,233,000	5,364,000
Liabilities And Shareholders' Equity										
Current Liabilities:										
Accounts Payable	1,779,000	1,451,000	1,154,000	911,000	801,000	1,157,000	812,000	719,000	685,000	791,000
Notes Payable	0	0	0	0	0	0	0	0	25,000	186,000
Short Term Debt	0	0	304,000	0	0	0	0	0	0	0
Accrued Expenses	1,705,000	1,229,000	899,000	747,000	717,000	776,000	737,000	801,000	1,108,000	1,026,000
Total Current Liabilities	3,484,000	2,680,000	2,357,000	1,658,000	1,518,000	1,933,000	1,549,000	1,520,000	1,818,000	2,003,000
Long Term Debt	0	0	0	316,000	317,000	300,000	300,000	954,000	951,000	949,000
Deferred Income Taxes	601,000	294,000	235,000	229,000	266,000	463,000	208,000	173,000	264,000	354,000
Total Non-Current Liabilities	601,000	294,000	235,000	545,000	583,000	763,000	508,000	1,127,000	1,215,000	1,303,000
Total Liabilities	4,085,000	2,974,000	2,592,000	2,203,000	2,101,000	2,696,000	2,057,000	2,647,000	3,033,000	3,306,000
Preferred Stock Equity	0	0	0	0	0	76,000	150,000	150,000	150,000	0
Common Stock	3,521,000	2,514,000	1,926,000	1,826,000	1,693,000	1,502,000	1,349,000	633,000	498,000	439,000
Retained Earnings	4,005,000	2,670,000	2,394,000	2,325,000	2,260,000	2,285,000	1,499,000	898,000	589,000	1,634,000
Deferred Stock Compensation	-60,000	-93,000	-62,000	-7,000	-11,000	0	0	0	0	0
Accu. Other Comprehensive Income (Loss)	0	-15,000	-35,000	-49,000	-22,000	244,000	106,000	-39,000	-37,000	-15,000
Total Equity	7,466,000	5,076,000	4,223,000	4,095,000	3,920,000	4,107,000	3,104,000	1,642,000	1,200,000	2,058,000
Total Liabilities & Stock Equity		8,050,000	6,815,000	6,298,000	6,021,000	6,803,000	5,161,000	4,289,000	4,233,000	5,364,000



Balance Sheet









Income Statement



	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Net Sales	13,931,000	8,279,000	6,207,000	5,742,000	5,363,000	7,983,000	6,134,000	5,941,000	7,081,000	9,833,000
Cost of Sales (with Depreciation)	9,888,000	6,020,000	4,499,000	4,139,000	4,128,000	5,817,000	4,438,000	4,462,000	5,713,000	8,865,000
Gross Margin	4,043,000	2,259,000	1,708,000	1,603,000	1,235,000	2,166,000	1,696,000	1,479,000	1,368,000	968,000
Operating Expenses										
R & D	534,000	489,000	471,000	446,000	430,000	380,000	314,000	303,000	485,000	604,000
SG&A	1,859,000	1,421,000	1,212,000	1,111,000	1,138,000	1,166,000	996,000	908,000	1,286,000	1,568,000
Restructing Costs	0	23,000	26,000	30,000	0	0	27,000	0	217,000	179,000
Total Operating Expenses	2,393,000	1,933,000	1,709,000	1,587,000	1,568,000	1,546,000	1,337,000	1,211,000	1,988,000	2,351,000
Operating Income (loss)	1,650,000	326,000	-1,000	16,000	-333,000	620,000	359,000	268,000	-620,000	-1,383,000
Other Income and Expense										
Gains On Non-Current Investments, Net	0	4,000	10,000	-42,000	90,000	367,000	230,000	0	0	0
Interest And Other Income. Net	165,000	53,000	83,000	112,000	218,000	203,000	87,000	28,000	25,000	88,000
Total Other Income and Expense	165,000	57,000	93,000	70,000	308,000	570,000	317,000	28,000	25,000	88,000
EBIT	1,815,000	383,000	92,000	86,000	-25,000	1,190,000	676,000	296,000	-595,000	-1,295,000
Provision for Income Taxes	480,000	107,000	24,000	22,000	-15,000	306,000	75,000	20,000	0	-479,000
Income Before Accounting Changes	1,335,000	276,000	68,000	64,000	-10,000	884,000	601,000	276,000	-595,000	-816,000
Cum. Effect of Acct Chg, Net of Income Taxes	0	0	1,000	0	12,000	0	0	0	0	0
Net Income	1,335,000	276,000	69,000	64,000	2,000	884,000	601,000	276,000	-595,000	-816,000

USD (thousand)



Income Statement







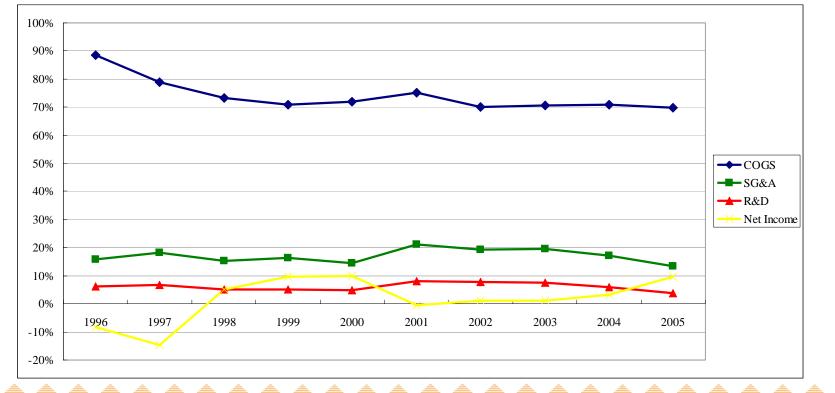
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% of Net Sales										
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
COGS	88.6%	79.0%	73.2%	71.0%	71.8%	75.1%	70.0%	70.7%	70.9%	69.7%
SG&A	15.9%	18.2%	15.3%	16.2%	14.6%	21.2%	19.3%	19.5%	17.2%	13.3%
R&D	6.1%	6.8%	5.1%	5.1%	4.8%	8.0%	7.8%	7.6%	5.9%	3.8%
Tax	-4.9%	0.0%	0.3%	1.2%	3.8%	-0.3%	0.4%	0.4%	1.3%	3.4%
Other Operating Expenses	1.8%	9.4%	0.1%	0.4%	1.2%	0.2%	0.5%	0.4%	0.3%	0.0%
Depreciation	1.6%	1.7%	1.9%	1.4%	1.1%	1.9%	2.1%	1.8%	1.8%	1.3%
Net Income	-8.3%	-14.8%	5.2%	9.8%	9.8%	-0.5%	1.1%	1.1%	3.3%	9.6%



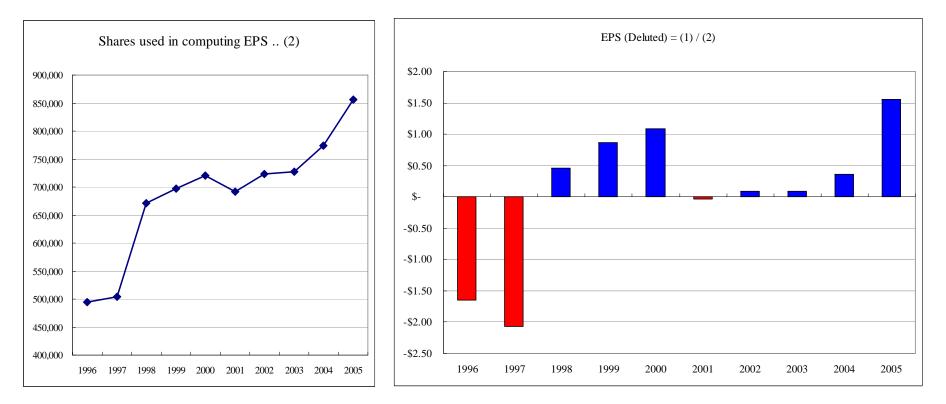






	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Net Income (1)	- 816,000	- 1,045,000	309,000	601,000	786,000	- 25,000	65,000	69,000	276,000	1,335,000
Shares used in computing EPS (2)	494,936	504,248	671,668	696,656	720,648	691,226	723,570	726,932	774,622	856,780
EPS (Deluted) = $(1) / (2)$	-1.65	-2.07	0.46	0.86	1.09	-0.04	0.09	0.09	0.36	1.56
EPS (Deluted) reported in 10-K	-1.65	-2.07	0.53	0.59	1.09	-0.04	0.09	0.09	0.36	1.56
(Thousand)										

(Thousand)





Cash Flow Statement – 1/2

	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Cash and cash equivalents, beginning of the year	2,969	3,396	2,252	2,310	1,191	1,326	1,481	1,230	1,552	756
Operating Activities:										
Net income	1,335	276	69	65	-25	786	601	309	-1,045	-816
Cumulative effects of accounting changes, net of taxes			-1		-12					
Adjustments to reconcile net income to cash generated										
by operating activities:										
Depreciation and amortization	179	150	113	118	102	84	85	111	118	116
Stock-based compensation expense	42	33	16							
Non-cash restructuring	0	5	12							
Provision for (benefit from) deferred income taxes	52	20	-11	-34	-36	163	-35	1	-50	-437
Tax benefit from stock options	453	99	7							
Loss on sale of property, plant, and equipment	9	7	2	7	9	10			37	16
Gains on sales of short-term investment, net		-1	-21							
Gains on non-current investments, net		-4	-10	35	-88	-367	-230	-40		
Gain on forward purchase agreement			-6							
Unrealized loss on convertible securities					13					
Purchased in-process research and development				1	11			7	375	
Changes in operating assets and liabilities:										
Accounts receivable	-121	-8	-201	-99	487	-272	274	72	469	435
Inventories	-64	-45	-11	-34	22	-13	58	359	225	1,113
Other current assets	-150	-176	-34	-114	106	-37	-32	31	36	45
Other assets	-61	-39	-30	-11	12	20	-3	83	-4	-24
Accounts payable	328	297	243	110	-356	318	93	34	-107	-373
Accrued restructuring costs							2	-107	109	124
Other current liabilities	533	320	152	45	-60	176	-15	-85	-9	209
Cash generated by operating activities	2,535	934	289	89	185	868	798	775	154	408

USD (million)



Cash Flow Statement – 2/2

	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Cash generated by operating activities	2,535	934	289	89	185	868	798	775	154	408
Investing Activities:										
Purchase of short-term investments	-11,470	-3,270	-2,648	-4,144	-4,268	-4,267	-4,236	-2,313	-999	-437
Proceeds from maturities of short-term investments	8,609	1,141	2,446	2,846	4,811	3,075	3,155	1,723	963	440
Proceeds from sales of short-term investments	586	801	1,116	1,254	278	256				
Proceeds from sales of non-current investments		5	45							
Purchases of long-term investments					-1	-232	-112			
Proceeds from sale of property, plant and equipment							23	89	47	47
Purchase of property, plant, and equipment	-260	-176	-164	-174	-232	-142	-47	-46	-53	-67
Proceeds from sales of equity investment				25	340	372	245	24		
Cash used for business acquisitions				-52						
Cash used for acquisition of technology									-384	
Other	-21	11	33	-7	-36	-34	8	-20	-73	9
Cash (used for) generated by investing activities	-2,556	-1,488	828	-252	892	-972	-964	-543	-499	-8
Financing Activities:										
Decrease in notes payable to banks								-22	-161	-275
Increase in long-term borrowings										646
Payment of long-term debt		-300								
Proceeds from issuance of preferred stock									150	
Proceeds from issuance of common stock	543	427	53	105	42	85	86	41	34	39
Cash used for repurchase of common stock			-26			-116	-75			
Cash dividend										-14
Cash generated by (used for) financing activities	543	127	27	105	42	-31	11	19	23	396
Increase (decrease) in cash and cash equivalents	522	-427	1,144	-58	1,119	-135	-155	251	-322	796
Cash and cash equivalents, end of the year	3,491	2,969	3,396	2,252	2,310	1,191	1,326	1,481	1,230	1,552

USD (million)









- Assume all options exercised now at market price \$70
- Apple will need to pay (\$70 \$17.79) x 73,221,000
 - = \$3.8 billion

Options Outstanding (thousands)	Weighted Average Remaining Contractual Life in Years	Avera	eighted ge Exercise Price
10,092	4.29	\$	7.33
14,954	5.65	\$	9.76
2,284	5.19	\$	10.31
11,726	5.36	\$	10.89
9,151	5.1	\$	11.37
9,622	5.39	\$	16.52
4,791	6.38	\$	36.04
10,601	6.94	\$	46.75
73,221	5.53	\$	17.79

Options Outstanding as of Sep 24, 2005







- To forecast cash flow, the starting point is to forecast APPLE's sales in the next 6 years
- I believe iPod is overshooting => Assume 0% growth
- iTune might not reach its full potential => Assume it will keep growing at 50%, 25%, 12.5%, 6.25% ...

Net Sales By Product	t (USD milli	ion)									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Desktops	2,781	2,828	2,475	2,373	3,436	3,693	3,969	4,265	4,584	4,926	5,294
Portables	1,622	1,706	2,016	2,550	2,839	3,151	3,498	3,883	4,310	4,784	5,310
iPod	-	143	345	1,306	4,540	4,540	4,540	4,540	4,540	4,540	4,540
iTune*	-	4	36	278	899	1,349	1,686	1,896	2,015	2,078	2,078
Peripherials	387	527	691	951	1,126	1,329	1,568	1,850	2,183	2,576	3,040
Software/Services	573	534	644	821	1,091	1,293	1,533	1,817	2,154	2,554	3,027
Total Net Sales	5,363	5,742	6,207	8,279	13,931	15,354	16,793	18,251	19,786	21,457	23,289
Desktops		1.02	0.88	0.96	1.45	1.07	1.07	1.07	1.07	1.07	1.07
Portables		1.05	1.18	1.26	1.11	1.11	1.11	1.11	1.11	1.11	1.11
iPod			2.41	3.79	3.48	1.00	1.00	1.00	1.00	1.00	1.00
iTune*			9.00	7.72	3.23	1.50	1.25	1.125	1.0625	1.03125	1.00
Peripherials		1.36	1.31	1.38	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Software/Services		0.93	1.21	1.27	1.33	1.19	1.19	1.19	1.19	1.19	1.19
Total Net Sales		1.07	1.08	1.33	1.68	1.10	1.09	1.09	1.08	1.08	1.09







The second step is to assume relationships between cost and revenue and construct the forecasted Income Statement

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Net Sales	5,363,000	5,742,000	6,207,000	8,279,000	13,931,000	15,354,440	16,793,021	18,251,427	19,785,625	21,457,464	23,288,858
Cost of Sales (with Depreciation)	4,128,000	4,139,000	4,499,000	6,020,000	9,888,000	10,901,653	11,921,952	12,957,325	14,046,505	15,233,403	16,533,573
Gross Margin	1,235,000	1,603,000	1,708,000	2,259,000	4,043,000	4,452,788	4,871,069	5,294,102	5,739,119	6,224,062	6,755,285
Operating Expenses											
R & D	430,000	446,000	471,000	489,000	534,000	588,563	643,706	699,610	758,418	822,503	892,703
SG&A	1,138,000	1,111,000	1,212,000	1,421,000	1,859,000	2,048,949	2,240,918	2,435,533	2,640,261	2,863,357	3,107,744
Restructing Costs	0	30,000	26,000	23,000	0	-	-	-	-	-	-
Purchased In-Process R&D	11,000	1,000	0	0	0	-	-	-	-	-	-
Executive Bonus	0	-2,000	0	0	0	-	-	-	-	-	-
Total Operating Expenses	1,579,000	1,586,000	1,709,000	1,933,000	2,393,000	2,637,512	2,884,624	3,135,142	3,398,679	3,685,860	4,000,448
Operating Income (loss)	-344,000	17,000	-1,000	326,000	1,650,000	1,815,276	1,986,445	2,158,960	2,340,440	2,538,202	2,754,837
Other Income and Expense											
Gains On Non-Current Investments, Net	88,000	-42,000	10,000	4,000	0	-	-	-	-	-	-
Unrealized loss on convertible secutiries	-13,000	0	0	0	0	-	-	-	-	-	-
Interest And Other Income. Net	217,000	112,000	83,000	53,000	165,000	-	-	-	-	-	-
Total Other Income and Expense	292,000	70,000	93,000	57,000	165,000	176,203	192,712	209,449	227,055	246,240	267,257
EBIT	-52,000	87,000	92,000	383,000	1,815,000	1,991,479	2,179,157	2,368,409	2,567,495	2,784,442	3,022,094
Provision for Income Taxes	-15,000	22,000	24,000	107,000	480,000	536,123	586,647	637,595	691,191	749,595	813,572
Income Before Accounting Changes	-37,000	65,000	68,000	276,000	1,335,000	1,455,357	1,592,510	1,730,814	1,876,304	2,034,848	2,208,522
Cum. Effect of Acct Chg, Net of Income Taxes	12,000	0	1,000	0	0	-	-	-	-	-	-
Net Income	-25,000	65,000	69,000	276,000	1,335,000	1,455,357	1,592,510	1,730,814	1,876,304	2,034,848	2,208,522
R&D / Sales	8.0%	7.8%	7.6%	5.9%	3.8%	3.8%	3.8%	3.8%	3.8%	3.8%	3.8%
SG&A / Sales	21.2%	19.3%	19.5%	17.2%	13.3%	13.3%	13.3%	13.3%	13.3%	13.3%	13.3%
Depreciation / Sales	1.9%	2.1%	1.8%	1.8%	1.3%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
COGS / Sales	75.1%	70.0%	70.7%	70.9%	69.7%	69.7%	69.7%	69.7%	69.7%	69.7%	<u>69.7%</u>
Other Operating Expenses / Sales	0.2%	0.5%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Income and Expenses / Sales	5.4%	1.2%	1.5%	0.7%	1.2%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%
Effective Tax Rate	28.8%	25.3%	26.1%	27.9%	26.4%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%
Net Income / Sales	-0.5%	1.1%	1.1%	3.3%	9.6%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%

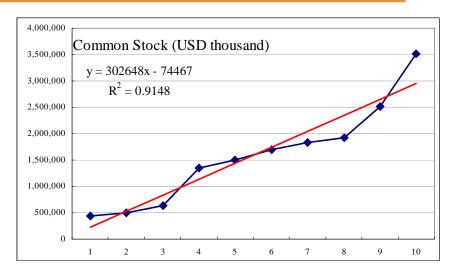






 To construct the forecasted balance sheet, I assume most entries are a percentage of revenue and will not change over time

 The only exception is common stock – it keeps growing at its own pace in the last 10 years



	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Revenue (Net Sales)	5,363,000	5,742,000	6,207,000	8,279,000	13,931,000	15,354,440	16,793,021	18,251,427	19,785,625	21,457,464	23,288,858
Cash / Revenue	43.07%	39.22%	54.71%	35.86%	25.06%	25.06%	25.06%	25.06%	25.06%	25.06%	25.06%
Short-Term Inv / Revenue	37.78%	36.31%	18.85%	30.14%	34.24%	34.24%	34.24%	34.24%	34.24%	34.24%	34.24%
AR / Revenue	8.69%	9.84%	12.34%	9.35%	6.42%	6.42%	6.42%	6.42%	6.42%	6.42%	6.42%
Inventory / Revenue	0.21%	0.78%	0.90%	1.22%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%	1.18%
Current Deferred Income Tax / Revenue	3.15%	2.89%	3.06%	2.79%	2.38%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%
Other Current Asset / Revenue	3.00%	4.79%	4.98%	5.86%	4.65%	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%
Net Fixed Assets / Revenue	10.52%	10.82%	10.78%	8.54%	5.86%	5.86%	5.86%	5.86%	5.86%	5.86%	5.86%
Other Assets / Revenue	5.85%	2.96%	2.42%	2.31%	2.43%	2.43%	2.43%	2.43%	2.43%	2.43%	2.43%
AP / Revenue	14.94%	15.87%	18.59%	17.53%	12.77%	15.94%	15.94%	15.94%	15.94%	15.94%	15.94%
Accrued Expenses / Revenue	13.37%	13.01%	14.48%	14.84%	12.24%	13.59%	13.59%	13.59%	13.59%	13.59%	13.59%
Deferred Income Tax / Revenue	4.96%	3.99%	3.79%	3.55%	4.31%	4.12%	4.12%	4.12%	4.12%	4.12%	4.12%
Common Stock (linear regression, 1996 x=1)	1,741,421	2,044,069	2,346,717	2,649,365	2,952,013	3,254,661	3,557,309	3,859,957	4,162,605	4,465,253	4,767,901
Deferred Stock Compensation	-0.21%	-0.12%	-1.00%	-1.12%	-0.43%	-0.43%	-0.43%	-0.43%	-0.43%	-0.43%	-0.43%
Working Capital	- 163,000	- 26,000	- 23,000	- 91,000	- 71,000	- 563,986	- 616,827	- 670,396	- 726,749	- 788,157 -	- 855,426
Increase in Working Capital	- 244,000	137,000	3,000	- 68,000	20,000	- 492,986	- 52,841	- 53,569	- 56,353	- 61,409	- 67,269
Increase in Other Assets	- 749,000	- 144,000	- 20,000	41,000	147,000	34,536	34,903	35,384	37,223	40,563	44,434









	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Assets											
Current Assets:											
Cash and Equivalents	2,310,000	2,252,000	3,396,000	2,969,000	3,491,000	3,847,703	4,208,200	4,573,665	4,958,123	5,377,073	5,836,006
Short-Term Investment	2,026,000	2,085,000	1,170,000	2,495,000	4,770,000	5,257,389	5,749,961	6,249,322	6,774,634	7,347,075	7,974,148
Accounts Receivable	466,000	565,000	766,000	774,000	895,000	986,449	1,078,871	1,172,567	1,271,132	1,378,539	1,496,198
Inventories	11,000	45,000	56,000	101,000	165,000	181,859	198,898	216,172	234,343	254,144	275,835
Current Deferred Income Taxes	169,000	166,000	190,000	231,000	331,000	438,199	479,254	520,876	564,660	612,372	664,638
Other Current Assets	161,000	275,000	309,000	485,000	648,000	714,880	781,858	849,760	921,190	999,028	1,084,295
Total Current Assets	5,143,000	5,388,000	5,887,000	7,055,000	10,300,000	11,426,479	12,497,043	13,582,361	14,724,081	15,968,232	17,331,120
Gross Fixed Assets (Plant, Prop. & Equip.)	924,000	1,057,000	1,174,000	1,298,000	1,481,000						
Accumulated Depreciation & Depletion	360,000	436,000	505,000	591,000	664,000						
Net Fixed Assets	564,000	621,000	669,000	707,000	817,000	900,479	984,847	1,070,377	1,160,351	1,258,398	1,365,803
Goodwill		85,000	85,000	80,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000
Accquired Intangible Assets, Net		34,000	24,000	17,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000
Other Assets	314,000	170,000	150,000	191,000	338,000	372,536	407,440	442,824	480,047	520,610	565,044
Total Non Current Assets	878,000	910,000	928,000	995,000	1,251,000	1,369,015	1,488,286	1,609,201	1,736,399	1,875,009	2,026,847
Total Assets	6,021,000	6,298,000	6,815,000	8,050,000	11,551,000	12,795,495	13,985,329	15,191,562	16,460,480	17,843,241	19,357,967
Liabilities And Shareholders' Equity											
Current Liabilities:											
Accounts Payable	801,000	911,000	1,154,000	1,451,000	1,779,000	2,447,175	2,676,454	2,908,894	3,153,413	3,419,869	3,711,754
Notes Payable	0	0	0	0	0	-	-	-	-	-	-
Short Term Debt	0	0	304,000	0	0	-	-	-	-	-	-
Accrued Expenses	717,000	747,000	899,000	1,229,000	1,705,000	2,086,549	2,282,041	2,480,227	2,688,713	2,915,903	3,164,775
Total Current Liabilities	1,518,000	1,658,000	2,357,000	2,680,000	3,484,000	4,533,724	4,958,496	5,389,121	5,842,125	6,335,771	6,876,529
Long Term Debt	317,000	316,000	0	0	0	-	-	-	-	-	-
Deferred Income Taxes	266,000	229,000	235,000	294,000	601,000	632,584	691,852	751,937	815,144	884,021	959,473
Total Non-Current Liabilities	583,000	545,000	235,000	294,000	601,000	632,584	691,852	751,937	815,144	884,021	959,473
Total Liabilities	2,101,000	2,203,000	2,592,000	2,974,000	4,085,000	5,166,308	5,650,347	6,141,057	6,657,269	7,219,793	7,836,002
Preferred Stock Equity	0	0	0	0	0	-	-	-	-	-	-
Common Stock	1,693,000	1,826,000	1,926,000	2,514,000	3,521,000	3,254,661	3,557,309	3,859,957	4,162,605	4,465,253	4,767,901
Retained Earnings	2,260,000	2,325,000	2,394,000	2,670,000	4,005,000	4,440,656	4,850,000	5,269,155	5,725,822	6,250,612	6,854,369
Deferred Stock Compensation	-11,000	-7,000	-62,000	-93,000	-60,000	- 66,131	- 72,327	- 78,608	- 85,216	- 92,416	- 100,304
Accu. Other Comprehensive Income (Loss)	-22,000	-49,000	-35,000	-15,000	0	-	-	-	-	-	-
Total Equity	3,920,000	4,095,000	4,223,000	5,076,000	7,466,000	7,629,186	8,334,982	9,050,504	9,803,211	10,623,448	11,521,966
Total Liabilities & Stock Equity	6,021,000	6,298,000	6,815,000	8,050,000	11,551,000	12,795,495	13,985,329	15,191,562	16,460,480	17,843,241	19,357,967



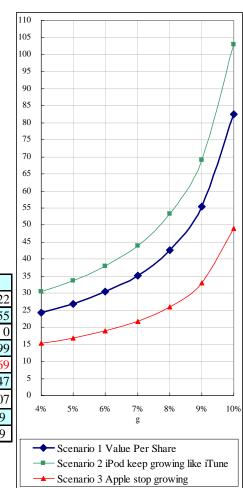






- Rm = S&P500 yearly return 1995~2005 = 9.52%
- Beta = 1.4106 (2001~2005 monthly return vs S&P500)
- Rf = 3.99% (US 3-mth T-Bill on 30-DEC-2005)
- Required Rate of Return on Equity = 11.8%
- g = 4% Value Per Share = \$24.4
- **\diamond** Current stock price implies g \approx 9.7%

	2006	2007	2008	2009	2010	2011
NI (Net Income)	1,455,357	1,592,510	1,730,814	1,876,304	2,034,848	2,208,522
NCC (Non Cash Charge)	199,608	218,309	237,269	257,213	278,947	302,755
Interest Expense	0	0	0	0	0	0
FCInv	370,989	405,748	440,986	478,054	518,449	562,699
WCInv	-492,986	-52,841	-53,569	-56,353	-61,409	-67,269
FCFF=NI+NCC+[Int*(1-tax rate)]-FCInv-WCInv	1,776,961	1,457,912	1,580,665	1,711,816	1,856,754	2,015,847
Terminal Value = FCFF $_{t+1}$ / (r - g)						25,888,607
Discount Factor	0.8946	0.8002	0.7159	0.6404	0.5729	0.5729
PV	1,589,601	1,166,680	1,131,542	1,096,220	1,063,666	14,830,629
Value of Firm	20,878,337					
Shares used in computing 2005 EPS	856,780					
Value Per Share	24.4					







Historical Price









- Superiority in production, marketing, research and financial skills
 - Excellent in marketing, research
 - Good financial strength
- The people factor
 - Steve Jobs
- Investment characteristics of some businesses
 - The best one in industry
- The price of investment
 - Current price is too high







