

International Business Machines Corp. (IBM)



November 6, 2012

Figures in Millions except per share values

Company Overview

International Business Machines Corporation provides information technology (IT) products and services worldwide. The company operates in five segments: Global Technology Services, Global Business Services, Software, Systems and Technology, and Global Financing. The Global Technology Services segment provides IT infrastructure and business process services, including strategic outsourcing, process, integrated technology, and maintenance services, as well as technology- and process-based services. The Global Business Services segment offers consulting and systems integration, and application management services. The Software segment offers middleware and operating systems software, such as WebSphere software to integrate and manage business processes; information management software for database and enterprise content management, information integration, data warehousing, performance management business analytics, intelligence, and data analytics; Tivoli software for identity management, data security, storage management, cloud computing, enterprise mobility, and automation and provisioning of the datacenter.

Valuation

Current Price	\$	194.14
NCAV	\$	(40.80)
Total Net Reprod. Cost	\$	68.31
Earnings Power Value (EPV)	\$	125.45
Discounted Cash Flow (DCF)	\$	272.05
Katsenelson Absolute PE	\$	255.44
Ben Graham Formula	\$	346.74

Key Statistics

Mkt Cap (\$M)	\$	219,364.61
52 Wk High	\$	211.79
52 Wk Low	\$	177.06
% off 52Wk Low		9.7%

Cash Flows

Owner Earnings FCF		11.2%
5 yr FCF Growth		11.2%
10 yr FCF Growth		14.3%

Effectiveness

CROIC		25.9%
Avg		25.9%
FCF/S		14.7%
Avg		14.7%
ROA		11.8%
Avg		11.8%
ROE		61.8%
Avg		61.8%

Efficiency

Receivables Turnover (TTM)		3.7
Inventory Turnover (TTM)		21.2
Days Sales Outstanding (TTM)		93.3

Margin of Safety

Current Price	100.0%
NCAV	20.0%
Total Net Reprod. Cost	25.0%
Earnings Power Value (EPV)	25.0%
Discounted Cash Flow (DCF)	25.0%
Katsenelson Absolute PE	25.0%
Ben Graham Formula	25.0%

Company Stats

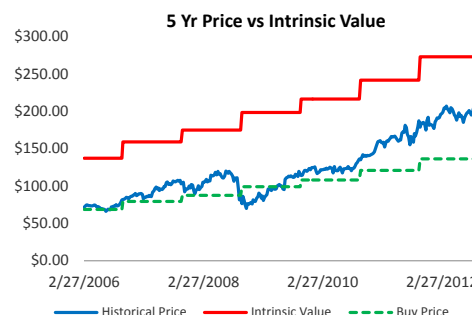
Shares Outstanding	1129.9
Shares Float	1128.9
Insider Ownership	0.06%
Insider Transactions	4.6%
Institutional Ownersh	60.3%
Float Short	1.4%
Short Ratio	4.1
Piotroski (TTM)	7
Altman (MRQ)	3.2
Beneish (TTM)	-3.0

Margins & Profitability

Gross	47.6%
Gross Margin	47.6%
Operating	20.4%
Operating Margin	20.4%
Net Profit	15.5%
Net Margin	15.5%

Financial Strength (MRQ)

Quick Ratio(MRQ)	1.2
Current Ratio(MRQ)	1.2
LTD/Eq(MRQ)	1.1
Tot D/Eq(MRQ)	1.6



Fundamental Ratios

	2010	2011	TTM
P/E	12.47	13.81	14.01
P/E (cash adjusted)	11.69	13.05	13.24
EV/EBITDA	8.79	9.50	9.95
EV/Free Cash Flow	12.05	12.49	13.07
P/S	1.85	2.05	2.13
P/BV	8.03	10.87	10.36
P/Tang BV	9.46	13.07	12.41
P/CF	8.87	9.74	9.99
P/OwnerEarnings	11.03	11.46	11.93
ROE	64.4%	78.7%	75.5%
ROA	13.1%	13.6%	14.0%
ROIC	22.3%	24.5%	23.0%
CROIC	27.4%	30.6%	29.2%
Current Ratio	1.19	1.21	1.22
Total Debt/Equity Ratio	3.92	4.78	4.37
Inventory Turnover	21.79	22.50	21.21

Selected Financial Statements

(In Millions, Except per Share Amounts)

	2007	2008	2009	2010	2011	TTM/Latest
Revenue	\$ 98,786	\$ 103,630	\$ 95,758	\$ 99,871	\$ 106,916	\$ 104,689
Gross Profit	\$ 41,729	\$ 45,661	\$ 43,785	\$ 46,014	\$ 50,138	\$ 49,852
Margin %	42.24%	44.06%	45.72%	46.07%	46.89%	47.62%
R&D	\$ 6,153	\$ 6,337	\$ 5,820	\$ 6,026	\$ 6,258	\$ 6,277
Margin %	6.23%	6.12%	6.08%	6.03%	5.85%	6.00%
Operating Income	\$ -	\$ 15,938	\$ 17,013	\$ 18,151	\$ 20,286	\$ 19,302
Margin %	0.00%	15.38%	17.77%	18.17%	18.97%	18.44%
Net Income	\$ 10,418	\$ 12,334	\$ 13,425	\$ 14,833	\$ 15,855	\$ 16,261
Margin %	10.55%	11.90%	14.02%	14.85%	14.83%	15.53%

Earnings Per Share

Basic	\$ 7.32	\$ 9.07	\$ 10.12	\$ 11.69	\$ 13.25	\$ 14.04
Diluted	\$ 7.18	\$ 8.93	\$ 10.01	\$ 11.52	\$ 13.06	\$ 13.86

Weighted Average Diluted Shares

Outstanding	1423.04	1381.77	1341.35	1287.36	1213.77	1149.30
Dividends Per Share	\$ 1.51	\$ 1.87	\$ 2.13	\$ 2.47	\$ 2.86	\$ 3.22
Dividend Yield	1.62%	2.36%	1.71%	1.72%	1.59%	1.66%
Net Cash From Operating Activities	\$ 16,089	\$ 18,811	\$ 20,773	\$ 19,549	\$ 19,846	\$ 20,336

(Dollars in Millions)

Net Property, Plants & Equipment	\$ 15,081	\$ 14,305	\$ 14,165	\$ 14,096	\$ 13,883	\$ 14,028
Total Assets	\$ 120,431	\$ 109,524	\$ 109,022	\$ 113,452	\$ 116,433	\$ 115,778
Long-term Debt	\$ 47,651	\$ 53,624	\$ 50,383	\$ 49,844	\$ 54,172	\$ 54,738
Stockholders' Equity	\$ 28,470	\$ 13,465	\$ 22,637	\$ 23,046	\$ 20,138	\$ 21,541

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Q3	Q4	Q1	Q2	Q3	TTM	Next Year Est
Income Statement																	
Revenue	\$ 81,186.0	\$ 89,131.0	\$ 96,293.0	\$ 91,134.0	\$ 91,424.0	\$ 98,786.0	\$ 103,630.0	\$ 95,758.0	\$ 99,871.0	\$ 106,016.0	\$ 26,157.0	\$ 29,486.0	\$ 24,673.0	\$ 25,783.0	\$ 24,747.0	\$ 104,689.0	
% change from prev year	-5.4%	9.8%	8.0%	-5.4%	0.3%	8.1%	5.0%	-7.8%	4.3%	6.2%	24.1%	12.7%	16.3%	4.5%	-0.0%	-2.1%	
Cost of Revenues	\$ 50,902.0	\$ 54,200.0	\$ 60,261.0	\$ 54,602.0	\$ 53,129.0	\$ 57,057.0	\$ 57,952.0	\$ 51,973.0	\$ 53,885.0	\$ 56,778.0	\$ 13,954.0	\$ 15,717.0	\$ 13,555.0	\$ 13,555.0	\$ 13,016.0	\$ 54,627.0	
COGS (%)	62.7%	60.8%	62.6%	59.9%	58.1%	57.8%	55.9%	54.3%	53.9%	53.1%	52.3%	53.7%	50.1%	52.4%	52.6%	52.4%	
Gross Profit	\$ 30,284.0	\$ 33,018.0	\$ 36,032.0	\$ 36,532.0	\$ 38,295.0	\$ 41,729.0	\$ 45,661.0	\$ 43,785.0	\$ 46,014.0	\$ 50,138.0	\$ 12,173.0	\$ 14,722.0	\$ 11,118.0	\$ 12,281.0	\$ 11,731.0	\$ 49,852.0	
Gross Income (%)	37.3%	37.0%	37.4%	40.1%	41.9%	42.2%	44.1%	45.7%	46.1%	46.9%	46.5%	49.9%	45.1%	47.6%	47.4%	47.6%	
Operating Expenses																	
Selling, General & Admin. Expenses	\$ 18,738.0	\$ 17,852.0	\$ 19,384.0	\$ 21,314.0	\$ 20,259.0	\$ 22,060.0	\$ 23,386.0	\$ 20,952.0	\$ 21,837.0	\$ 23,594.0	\$ 5,662.0	\$ 6,076.0	\$ 5,888.0	\$ 5,837.0	\$ 5,008.0	\$ 23,707.0	
SG&A (%)	23.1%	20.0%	20.1%	23.4%	22.3%	22.3%	22.6%	21.9%	21.9%	22.1%	21.6%	20.6%	23.9%	22.6%	20.2%	22.6%	
Research & Development	\$ 4,750.0	\$ 5,077.0	\$ 5,673.0	\$ 5,842.0	\$ 6,107.0	\$ 6,153.0	\$ 6,337.0	\$ 5,820.0	\$ 6,026.0	\$ 6,258.0	\$ 1,546.0	\$ 1,555.0	\$ 1,601.0	\$ 1,587.0	\$ 1,534.0	\$ 6,277.0	
R&D (%)	5.9%	5.7%	5.9%	6.4%	6.7%	6.2%	6.1%	6.1%	6.0%	5.9%	1.5%	5.3%	6.5%	6.2%	6.2%	6.0%	
EBITDA	\$ 9,420.0	\$ 14,760.0	\$ 15,872.0	\$ 14,504.0	\$ 16,995.0	\$ 18,171.0	\$ 18,806.0	\$ 22,007.0	\$ 22,962.0	\$ 25,101.0	\$ 6,157.0	\$ 8,279.0	\$ 4,788.0	\$ 6,033.0	\$ 5,480.0	\$ 24,580.0	
EBITDA (%)	11.6%	16.0%	15.9%	15.9%	18.6%	18.1%	18.1%	23.0%	22.9%	23.6%	23.2%	28.1%	19.4%	23.4%	22.1%	23.3%	
Other Special Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation & Amortization	\$ 4,379.0	\$ 4,701.0	\$ 4,915.0	\$ 5,188.0	\$ 4,983.0	\$ 5,201.0	\$ 5,450.0	\$ 4,994.0	\$ 4,831.0	\$ 4,815.0	\$ 1,192.0	\$ 1,188.0	\$ 1,157.0	\$ 1,176.0	\$ 1,191.0	\$ 4,712.0	
D&A (%)	5.4%	5.3%	5.1%	5.7%	5.5%	5.3%	5.3%	5.2%	4.8%	4.5%	4.6%	4.0%	4.7%	4.6%	4.6%	4.5%	
Operating Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,938.0	\$ 17,013.0	\$ 18,151.0	\$ 20,286.0	\$ 5,263.0	\$ 6,236.0	\$ 3,631.0	\$ 5,146.0	\$ 4,289.0	\$ 19,302.0	
Operating Income (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	17.8%	18.2%	19.0%	20.1%	21.1%	14.7%	20.6%	17.3%	18.4%	
Other Income and Expense																	
Interest Expense	\$ 145.0	\$ 145.0	\$ 139.0	\$ 220.0	\$ 278.0	\$ 611.0	\$ 673.0	\$ 402.0	\$ 368.0	\$ 411.0	\$ 107.0	\$ 113.0	\$ 110.0	\$ 117.0	\$ 124.0	\$ 464.0	
Interest Income	\$ -	\$ -	\$ 180.0	\$ -	\$ 536.0	\$ 565.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Other Income	\$ 873.0	\$ 930.0	\$ 1,019.0	\$ 3,076.0	\$ 1,039.0	\$ 1,039.0	\$ 4,032.0	\$ 1,527.0	\$ 1,440.0	\$ 1,128.0	\$ 169.0	\$ 296.0	\$ 314.0	\$ 421.0	\$ 999.0	\$ 1,940.0	
Income Before Taxes	\$ 7,524.0	\$ 10,874.0	\$ 12,028.0	\$ 12,226.0	\$ 13,317.0	\$ 14,489.0	\$ 16,715.0	\$ 18,138.0	\$ 18,723.0	\$ 21,003.0	\$ 5,027.0	\$ 7,274.0	\$ 3,835.0	\$ 5,161.0	\$ 5,074.0	\$ 21,344.0	
Income Taxes/(Credit)	\$ 2,190.0	\$ 3,261.0	\$ 3,580.0	\$ 4,232.0	\$ 3,901.0	\$ 4,071.0	\$ 4,381.0	\$ 4,713.0	\$ 4,890.0	\$ 5,148.0	\$ 1,188.0	\$ 1,784.0	\$ 769.0	\$ 1,280.0	\$ 1,250.0	\$ 5,083.0	
Tax Rate (%)	29.1%	30.0%	29.8%	34.6%	29.1%	28.1%	26.2%	26.0%	24.9%	24.5%	23.6%	24.5%	20.1%	24.8%	24.8%	23.6%	
Earnings After Taxes	\$ 5,334.0	\$ 7,613.0	\$ 8,448.0	\$ 7,994.0	\$ 9,416.0	\$ 10,418.0	\$ 12,334.0	\$ 13,425.0	\$ 14,833.0	\$ 15,855.0	\$ 3,839.0	\$ 5,490.0	\$ 3,066.0	\$ 3,881.0	\$ 3,824.0	\$ 16,261.0	
Minority Interest Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Net Income From Continuing Operations	\$ 5,334.0	\$ 7,613.0	\$ 8,448.0	\$ 7,994.0	\$ 9,416.0	\$ 10,418.0	\$ 12,334.0	\$ 13,425.0	\$ 14,833.0	\$ 15,855.0	\$ 3,839.0	\$ 5,490.0	\$ 3,066.0	\$ 3,881.0	\$ 3,824.0	\$ 16,261.0	
Net Income From Discontinued Operations	\$ (1,755.0)	\$ (30.0)	\$ (18.0)	\$ (24.0)	\$ 76.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Net Income From Total Operations	\$ 3,579.0	\$ 7,583.0	\$ 8,430.0	\$ 7,970.0	\$ 9,492.0	\$ 10,418.0	\$ 12,334.0	\$ 13,425.0	\$ 14,833.0	\$ 15,855.0	\$ 3,839.0	\$ 5,490.0	\$ 3,066.0	\$ 3,881.0	\$ 3,824.0	\$ 16,261.0	
Net Income (%)	4.4%	8.5%	8.8%	8.7%	10.4%	10.6%	11.9%	14.0%	14.8%	14.8%	14.7%	18.6%	12.4%	15.1%	15.5%	15.5%	
Shares and EPS																	
Total Basic EPS	\$ 2.10	\$ 4.40	\$ 5.03	\$ 4.95	\$ 6.20	\$ 7.32	\$ 9.07	\$ 10.12	\$ 11.69	\$ 13.25	\$ 3.23	\$ 4.65	\$ 2.65	\$ 3.38	\$ 3.36	\$ 14.04	
Fully Diluted EPS	\$ 2.06	\$ 4.32	\$ 4.93	\$ 4.88	\$ 6.11	\$ 7.18	\$ 8.93	\$ 10.01	\$ 11.52	\$ 13.06	\$ 3.19	\$ 4.58	\$ 2.61	\$ 3.34	\$ 3.33	\$ 13.86	
Dividends Paid Per Share	\$ 0.59	\$ 0.63	\$ 0.70	\$ 0.78	\$ 1.10	\$ 1.50	\$ 1.90	\$ 2.15	\$ 2.50	\$ 2.90	\$ 0.75	\$ 0.75	\$ 0.75	\$ 0.85	\$ 0.85	\$ 3.20	
Diluted Shares Outstanding	1,703.9	1,721.6	1,675.0	1,600.6	1,530.8	1,450.6	1,359.8	1,327.2	1,268.8	1,197.0	1,188.6	1,197.0	1,159.1	1,149.0	1,137.2	1,129.9	
Diluted Shares Outstanding	1,703.9	1,756.1	1,708.9	1,627.6	1,553.5	1,423.0	1,381.8	1,341.4	1,287.4	1,213.8	1,204.9	1,213.8	1,174.2	1,161.9	1,149.3	1,149.3	
User Defined Shares Outstanding																	

Cash Flow Sheet

MRQ

Assets																	
Cash and Equiv	\$ 5,382.0	\$ 7,290.0	\$ 10,053.0	\$ 12,568.0	\$ 8,022.0	\$ 14,991.0	\$ 12,741.0	\$ 12,183.0	\$ 10,661.0	\$ 11,922.0	\$ 11,303.0	\$ 11,922.0	\$ 11,835.0	\$ 10,864.0	\$ 11,909.0	\$ 11,909.0	
Short-Term Investments	\$ 593.0	\$ 357.0	\$ 517.0	\$ 1,118.0	\$ 2,634.0	\$ 1,155.0	\$ 1,660.0	\$ 1,791.0	\$ 990.0	\$ -	\$ -	\$ -	\$ 500.0	\$ 323.0	\$ 345.0	\$ 345.0	
Net Receivables	\$ 27,358.0	\$ 28,023.0	\$ 28,136.0	\$ 24,288.0	\$ 26,848.0	\$ 28,789.0	\$ 27,555.0	\$ 26,793.0	\$ 28,225.0	\$ 29,561.0	\$ 24,987.0	\$ 29,561.0	\$ 26,841.0	\$ 26,857.0	\$ 26,763.0	\$ 26,763.0	
% change from prev year	-	5.7%	-2.7%	-13.2%	9.9%	7.2%	-4.3%	-2.8%	5.3%	4.7%	-11.5%	0.0%	-9.2%	0.1%	-0.4%	-9.5%	
Inventories, raw materials	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inventories, work in progress	\$ 2,188.0	\$ 1,950.0	\$ 2,137.0	\$ 1,939.0	\$ 2,304.0	\$ 1,996.0	\$ 2,176.0	\$ 1,960.0	\$ 2,018.0	\$ 2,007.0	\$ 2,045.0	\$ 2,007.0	\$ 2,058.0	\$ 2,006.0	\$ 1,937.0	\$ 1,937.0	
Inventories, purchased components	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inventories, finished goods	\$ 960.0	\$ 992.0	\$ 1,179.0	\$ 902.0	\$ 506.0	\$ 668.0	\$ 524.0	\$ 533.0	\$ 432.0	\$ 589.0	\$ 618.0	\$ 589.0	\$ 696.0	\$ 752.0	\$ 649.0	\$ 649.0	
Inventories, other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inventories	\$ 3,148.0	\$ 2,942.0	\$ 3,316.0	\$ 2,841.0	\$ 2,810.0	\$ 2,664.0	\$ 2,701.0	\$ 2,494.0	\$ 2,450.0	\$ 2,596.0	\$ 2,663.0	\$ 2,596.0	\$ 2,754.0	\$ 2,758.0	\$ 2,586.0	\$ 2,586.0	
% change from prev year	-	-6.5%	12.7%	-14.3%	-1.1%	-5.2%	1.4%	-7.9%	-2.9%	6.0%	8.7%	0.0%	6.1%	0.1%	-6.2%	-0.4%	
Prepaid Expenses	\$ 2,554.0	\$ 2,608.0	\$ 2,719.0	\$ 2,941.0	\$ 2,539.0	\$ 3,891.0	\$ 4,299.0	\$ 3,944.0	\$ 4,226.0	\$ 5,248.0	\$ 5,172.0	\$ 5,248.0	\$ 5,299.0	\$ 5,112.0	\$ 5,016.0	\$ 5,016.0	
Current Deferred Income Taxes	\$ 2,617.0	\$ 2,542.0	\$ 2,229.0	\$ 1,765.0	\$ 1,806.0	\$ 1,687.0	\$ 1,542.0	\$ 1,730.0	\$ 1,564.0	\$ 1,601.0	\$ 1,247.0	\$ 1,601.0	\$ 1,617.0	\$ 1,478.0	\$ 1,522.0	\$ 1,522.0	
Other Current Assets	\$ -	\$ 336.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.0	\$ -	\$ 1.0	\$ -	\$ -	\$ -	
Total Current Assets	\$ 41,652.0	\$ 44,998.0	\$ 46,970.0	\$ 45,661.0	\$ 44,660.0	\$ 53,177.0	\$ 49,004.0	\$ 48,935.0	\$ 48,116.0	\$ 50,928.0	\$ 45,373.0	\$ 50,928.0	\$ 48,847.0	\$ 47,392.0	\$ 48,141.0	\$ 48,141.0	
Land and Improvements	\$ 837.0	\$ 865.0	\$ 840.0	\$ 684.0	\$ 693.0	\$ 701.0	\$ 729.0	\$ 737.0	\$ 777.0	\$ 786.0	\$ -	\$ 786.0	\$ -	\$ -	\$ -	\$ -	
Building and Improvements	\$ 8,978.0	\$ 9,261.0	\$ 9,100.0	\$ 8,312.0	\$ 8,243.0	\$ 8,498.0	\$ 12,765.0	\$ 12,970.0	\$ 12,836.0	\$ 12,495.0	\$ -	\$ 12,495.0	\$ -	\$ -	\$ -	\$ -	
Machinery, Furniture & Equipment	\$ 26,268.0	\$ 26,996.0	\$ 26,445.0	\$ 21,760.0	\$ 23,907.0	\$ 29,386.0	\$ 24,950.0	\$ 25,888.0	\$ 26,676.0	\$ 26,843.0	\$ -	\$ 26,843.0	\$ -	\$ -	\$ -	\$ -	
Construction in Progress	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Fixed Assets	\$ -	\$ -	\$ -	\$ 3,505.0	\$ 3,678.0	\$ -	\$ 1.0	\$ 1.0	\$ -	\$ -	\$ -	\$ 40,139.0	\$ -	\$ 40,441.0	\$ 40,158.0	\$ 40,716.0	
Total Fixed Assets	\$ 36,083.0	\$ 37,122.0	\$ 36,385.0	\$ 34,261.0	\$ 36,521.0	\$ 38,584.0	\$ 38,446.0	\$ 39,586.0	\$ 40,289.0	\$ 40,124.0	\$ 40,140.0	\$ 40,124.0	\$ 40,441.0	\$ 40,158.0	\$ 40,716.0	\$ 40,716.0	
Net Fixed Assets	\$ 14,440.0	\$ 14,689.0	\$ 15,175.0	\$ 13,756.0	\$ 14,440.0	\$ 15,061.0	\$ 14,305.0	\$ 14,165.0	\$ 14,096.0	\$ 13,883.0	\$ 13,887.0	\$ 13,883.0	\$ 13,945.0	\$ 13,866.0	\$ 14,028.0	\$ 14,028.0	
Intangible Assets	\$ 4,677.0	\$ 7,495.0	\$ 10,256.0	\$ 11,104.0	\$ 2,202.0	\$ 2,107.0	\$ 2,878.0	\$ 2,513.0	\$ 3,488.0	\$ 3,392.0	\$ 3,033.0	\$ 3,392.0	\$ 3,641.0	\$ 3,658.0	\$ 3,563.0	\$ 3,563.0	
Goodwill	\$ -	\$ -	\$ -	\$ 12,854.0	\$ 14,285.0	\$ 14,285.0	\$ 18,226.0	\$ 20,190.0	\$ 25,136.0	\$ 26,213.0	\$ 24,913.0	\$ 26,213.0	\$ 27,468.0	\$ 27,735.0	\$ 28,270.0	\$ 28,270.0	
Non Current Deferred Income Taxes	\$ 4,314.0	\$ 4,288.0	\$ -	\$ 12,950.0	\$ 15,133.0	\$ 17,841.0	\$ 17,841.0	\$ 4,195.0	\$ 3,220.0	\$ 3,503.0	\$ 2,570.0	\$ 3,503.0	\$ 3,100.0	\$ 2,785.0	\$ 2,555.0	\$ 2,555.0	
Other Long-Term Assets	\$ 31,410.0	\$ 32,967.0	\$ 36,512.0	\$ 35,277.0	\$ 29,078.0	\$ 29,078.0	\$ 19,258.0	\$ 17,841.0	\$ 19,258.0	\$ 18,346.0	\$ 18,346.0	\$ 18,346.0	\$ 18,346.0	\$ 19,221.0	\$ 19,221.0	\$ 19,221.0	
Total Long-Term Assets	\$ 54,832.0	\$ 59,459.0	\$ 62,213.0	\$ 60,087.0	\$ 58,574.0	\$ 67,254.0	\$ 60,520.0	\$ 60,087.0	\$ 65,336.0	\$ 65,505.0	\$ 64,785.0	\$ 65,505.0	\$ 66,500.0	\$ 66,440.0	\$ 67,637.0	\$ 67,637.0	
Total Assets	\$ 96,484.0	\$ 104,457.0	\$ 109,183.0	\$ 105,748.0	\$ 103,234.0	\$ 120,431.0	\$ 109,524.0	\$ 109,022.0	\$ 113,452.0	\$ 116,433.0	\$ 110,158.0	\$ 116,433.0	\$ 115,347.0	\$ 113,832.0	\$ 115,778.0	\$ 115,778.0	
Liabilities & Stockholders' Equity																	
Accounts payable	\$ 7,630.0	\$ 8,460.0	\$ 9,444.0	\$ 7,349.0	\$ 7,964.0	\$ 8,054.0	\$ 7,014.0	\$ 7,436.0	\$ 7,804.0	\$ 8,517.0	\$ 7,093.0	\$ 8,517.0	\$ 7,416.0	\$ 7,482.0	\$ 7,085.0	\$ 7,085.0	
Short-Term Debt	\$ 6,031.0	\$ 6,646.0	\$ 8,099.0	\$ 7,216.0	\$ 8,902.0	\$ 12,235.0	\$ 11,236.0	\$ 4,168.0	\$ 6,778.0	\$ 8,463.0	\$ 6,071.0	\$ 8,463.0	\$ 6,293.0	\$ 7,669.0	\$ 9,334.0	\$ 9,334.0	
Taxes Payable	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Accrued Expenses	\$ 6,413.0	\$ 7,156.0	\$ 6,548.0	\$ 5,233.0	\$ 5,372.0	\$ 5,901.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Accrued Liabilities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,203.0	\$ 5,223.0	\$ 10,184.0	\$ 9,633.0	\$ 9,252.0	\$ 9,633.0	\$ 9,047.0	\$ 9,258.0	\$ 9,703.0	\$ 9,703.0	
Deferred Revenues	\$ 5,276.0	\$ 6,492.0	\$ 7,175.0	\$ 7,319.0	\$ 8,587.0	\$ 9,802.0	\$ 10,239.0	\$ 10,845.0	\$ 11,580.0	\$ 12,197.0	\$ 11,252.0	\$ 12,197.0	\$ 13,269.0	\$ 12,311.0	\$ 11,230.0	\$ 11,230.0	
Current Deferred Income Taxes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Current Liabilities	\$ 9,200.0	\$ 9,146.0	\$ 8,532.0	\$ 8,035.0	\$ 9,265.0	\$ 8,318.0	\$ 7,435.0	\$ 8,330.0	\$ 4,216.0	\$ 3,313.0	\$ 2,360.0	\$ 3,313.0	\$ 2,184.0	\$ 2,183.0	\$ 2,147.0	\$ 2,147.0	
Total Current Liabilities	\$ 34,550.0	\$ 37,900.0	\$ 39,798.0	\$ 35,152.0	\$ 40,091.0	\$ 44,310.0	\$ 42,435.0	\$ 36,002.0	\$ 40,562.0	\$ 42,123.0	\$ 36,028.0	\$ 42,123.0	\$ 38,209.0	\$ 38,903.0	\$ 39,499.0	\$ 39,499.0	
Long-Term Debt	\$ 19,960.0	\$ 16,965.0	\$ 14,828.0	\$ 15,425.0	\$ 13,780.0	\$ 23,039.0	\$ 22,689.0	\$ 21,932.0	\$ 21,846.0	\$ 22,657.0	\$ 24,069.0	\$ 22,857.0	\$ 24,766.0	\$ 24,766.0	\$ 24,333.0	\$ 24,333.0	
Other Liabilities	\$ 17,715.0	\$ 19,875.0	\$ 24,810.0	\$ 22,073.0	\$ 23,687.0	\$ 20,857.0	\$ 23,687.0	\$ 28,353.0	\$ 27,874.0	\$ 31,217.0	\$ 27,874.0	\$ 31,217.0	\$ 29,665.0	\$ 29,665.0	\$ 30,283.0	\$ 30,283.0	
Deferred Income Taxes	\$ 1,450.0	\$ 1,834.0	\$ -	\$ -	\$ 1,064.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Long-Term Liabilities	\$ 39,152.0	\$ 38,693.0	\$ 39,638.0	\$ 37,498.0	\$ 34,637.0	\$ 47,651.0	\$ 53,624.0	\$ 50,383.0	\$ 49,844.0	\$ 54,172.0	\$ 51,839.0	\$ 54,172.0	\$ 56,437.0	\$ 54,457.0	\$ 54,738.0	\$ 54,738.0	
Total Liabilities	\$ 73,702.0	\$ 76,593.0	\$ 79,436.0	\$ 72,650.0	\$ 74,727.0	\$ 91,961.0	\$ 96,059.0	\$ 86,385.0	\$ 90,406.0	\$ 96,295.0	\$ 87,867.0	\$ 96,295.0	\$ 94,646.0	\$ 93,360.0	\$ 94,237.0	\$ 94,237.0	
Retained Earnings	\$ 31,555.0	\$ 37,525.0	\$ 44,525.0	\$ 44,734.0	\$ 52,432.0	\$ 60,640.0	\$ 70,353.0	\$ 80,900.0	\$ 92,532.0	\$ 104,857.0	\$ 100,266.0	\$ 104,857.0	\$ 107,036.0	\$ 109,928.0	\$ 112,773.0	\$ 112,773.0	
Preferred Equity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Equity	\$ 22,782.0	\$ 27,864.0	\$ 29,747.0	\$ 33,098.0	\$ 28,506.0	\$ 28,470.0	\$ 13,465.0	\$ 22,637.0	\$ 23,046.0	\$ 20,138.0	\$ 22,291.0	\$ 20,138.0	\$ 20,701.0	\$ 20,472.0	\$ 21,541.0	\$ 21,541.0	
Total Liabilities & Equity	\$ 96,484.0	\$ 104,457.0	\$ 109,183.0	\$ 105,748.0	\$ 103,233.0	\$ 120,431.0	\$ 109,524.0	\$ 109,022.0	\$ 113,452.0	\$ 116,433.0	\$ 110,158.0	\$ 116,433.0	\$ 115,347.0	\$ 113,832.0	\$ 115,778.0	\$ 115,778.0	

		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Q4	Q1	Q2	Q3	TTM
Income Statement																
Revenue		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Revenues		62.7%	63.0%	62.6%	59.9%	58.1%	57.8%	55.9%	54.3%	53.9%	53.1%	50.1%	54.9%	52.4%	52.6%	52.4%
Gross Profit		37.3%	37.0%	37.4%	40.1%	41.9%	42.2%	44.1%	45.7%	46.1%	46.9%	49.9%	45.1%	47.6%	47.4%	47.6%

Operating Expenses

Selling, General & Admin. Expenses		23.1%	20.0%	20.1%	23.4%	22.2%	22.3%	22.6%	21.9%	21.9%	22.1%		20.6%	23.9%	22.6%	23.9%	22.6%
Research & Development		5.9%	5.7%	5.9%	6.4%	6.7%	6.2%	6.1%	6.1%	6.0%	5.9%		5.3%	6.5%	6.2%	6.2%	6.0%
EBITDA		11.6%	16.6%	16.5%	15.9%	18.6%	18.9%	18.1%	23.0%	23.0%	23.5%		28.1%	19.4%	23.4%	22.1%	23.5%
Other Special Charges		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
Depreciation & Amortization		5.4%	5.3%	5.1%	5.7%	5.5%	5.3%	5.3%	5.2%	4.8%	4.5%		4.0%	4.7%	4.6%	4.8%	4.5%
Operating Income		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	17.8%	18.2%	19.0%		21.1%	14.7%	20.0%	17.3%	18.4%

Other Income and Expense

Interest Expense		0.2%	0.2%	0.1%	0.2%	0.3%	0.6%	0.6%	0.4%	0.4%	0.4%		0.4%	0.4%	0.5%	0.5%	0.4%
Other Income		1.1%	1.0%	1.1%	3.4%	1.2%	1.0%	3.9%	1.6%	1.9%	1.1%		1.0%	1.3%	1.6%	3.7%	1.9%
Earnings Before Taxes		9.3%	12.2%	12.5%	13.4%	14.6%	14.7%	16.1%	18.9%	19.7%	19.6%		24.7%	15.5%	20.0%	20.5%	20.4%
Income Taxes/(Credit)		2.7%	3.7%	3.7%	4.6%	4.3%	4.1%	4.2%	4.9%	4.9%	4.8%		6.1%	3.1%	5.0%	5.1%	4.9%
Earnings After Taxes		6.6%	8.5%	8.8%	8.8%	10.3%	10.5%	11.9%	14.0%	14.9%	14.8%		18.6%	12.4%	15.1%	15.5%	15.5%
Minority Interest		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
Net Income From Continuing Operations		6.6%	8.5%	8.8%	8.8%	10.3%	10.5%	11.9%	14.0%	14.9%	14.8%		18.6%	12.4%	15.1%	15.5%	15.5%
Net Income From Discontinued Operations		-2.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
Net Income From Total Operations		4.4%	8.5%	8.8%	8.7%	10.4%	10.5%	11.9%	14.0%	14.9%	14.8%		18.6%	12.4%	15.1%	15.5%	15.5%

Balance Sheet	MRQ
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Assets																
Cash & Equivalents		5.6%	7.0%	9.2%	11.9%	7.8%	12.4%	11.6%	11.2%	9.4%	10.2%	10.2%	10.3%	9.5%	10.3%	10.3%
Short-Term Investments		0.6%	0.3%	0.5%	1.1%	2.6%	1.0%	0.2%	1.6%	0.9%	0.0%	0.0%	0.4%	0.3%	0.3%	0.3%
Net Receivables		28.4%	27.7%	25.8%	23.1%	26.0%	23.9%	25.2%	24.6%	24.9%	25.4%	25.4%	23.3%	23.6%	23.1%	23.1%
Inventories		3.3%	2.8%	3.0%	2.7%	2.7%	2.2%	2.5%	2.2%	2.3%	2.2%	2.2%	2.4%	2.4%	2.2%	2.2%
Other Current Assets		0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Current Assets		43.2%	43.1%	43.0%	43.2%	43.3%	44.2%	44.7%	44.9%	42.4%	43.7%	43.7%	42.3%	41.6%	41.6%	41.6%
Fixed Assets		15.0%	14.1%	13.9%	13.0%	14.0%	12.5%	13.1%	13.0%	12.4%	11.9%	11.9%	12.1%	12.2%	12.1%	12.1%
Intangible Assets		4.8%	7.2%	9.4%	10.5%	2.1%	1.7%	2.6%	2.3%	3.1%	2.9%	2.9%	3.2%	3.2%	3.1%	3.1%
Other Long-Term Assets		32.5%	31.6%	33.7%	33.3%	28.2%	28.5%	16.3%	17.4%	17.1%	15.9%	15.9%	15.9%	16.2%	16.6%	16.6%
Total Long-Term Assets		56.8%	56.9%	57.0%	56.8%	56.7%	55.8%	55.3%	55.1%	57.6%	56.3%	56.3%	57.7%	58.4%	58.4%	58.4%
Total Assets		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Liabilities & Stockholders' Equity

Accounts payable		7.9%	8.1%	8.6%	6.9%	7.7%	6.7%	6.4%	6.8%	6.9%	7.3%	7.3%	6.4%	6.6%	6.1%	6.1%
Short-Term Debt		6.3%	6.4%	7.4%	6.8%	8.6%	10.2%	10.3%	3.8%	6.0%	7.3%	7.3%	5.5%	6.7%	8.1%	8.1%
Taxes Payable		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Accrued Liabilities		0.0%	0.0%	0.0%	0.0%	0.0%	10.2%	4.8%	9.0%	8.3%	8.3%	8.3%	7.8%	8.1%	8.4%	8.4%
Other Current Liabilities		9.5%	8.8%	7.8%	7.6%	9.0%	6.9%	2.5%	7.6%	3.7%	2.8%	2.8%	1.9%	1.9%	1.9%	1.9%
Total Current Liabilities		35.8%	36.3%	36.5%	33.2%	38.8%	36.8%	38.7%	33.0%	35.8%	36.2%	36.2%	33.1%	34.2%	34.1%	34.1%
Long-Term Debt		20.7%	16.3%	13.6%	14.6%	13.3%	19.1%	20.7%	20.1%	19.3%	19.6%	19.6%	22.3%	21.8%	21.0%	21.0%
Other Liabilities		18.4%	19.0%	22.7%	20.9%	20.2%	19.6%	28.2%	26.0%	24.6%	26.8%	26.8%	26.5%	26.0%	26.2%	26.2%
Deferred Income Taxes		1.5%	1.8%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Long-Term Liabilities		40.6%	37.0%	36.3%	35.5%	33.6%	39.6%	49.0%	46.2%	43.9%	46.5%	46.5%	48.9%	47.8%	47.3%	47.3%
Total Liabilities		76.4%	73.3%	72.8%	68.7%	72.4%	76.4%	87.7%	79.2%	79.7%	82.7%	82.7%	82.1%	82.0%	81.4%	81.4%
Retained Earnings		32.7%	35.9%	40.8%	42.3%	50.8%	50.4%	64.2%	74.2%	81.6%	90.1%	90.1%	92.1%	92.8%	96.6%	97.4%
Preferred Equity		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Equity		23.6%	26.7%	27.2%	31.3%	27.6%	23.6%	12.3%	20.8%	20.3%	17.3%	17.3%	17.9%	18.0%	18.6%	18.6%
Total Liabilities & Equity		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM
Financial Statistics & Ratios												
Valuation Ratios												
P/E		37.11	18.55	17.20	15.56	14.44	12.93	8.86	12.46	12.47	13.81	14.01
P/E (cash adjusted)		35.44	17.54	15.94	13.83	13.32	11.35	7.82	11.42	11.69	13.05	13.24
EV/EBITDA		16.18	10.62	9.91	9.14	8.77	8.08	6.93	8.16	8.79	9.50	9.95
EV/Free Cash Flow		80.92	23.86	18.22	14.37	12.49	12.91	8.84	12.40	12.05	12.49	13.07
P/S		1.63	1.58	1.50	1.36	1.50	1.34	1.06	1.75	1.85	2.05	2.13
P/BV		5.81	5.05	4.87	3.73	4.81	4.64	8.12	7.39	8.03	10.87	10.36
P/Tang BV		7.31	6.91	7.42	5.62	5.21	5.01	10.33	8.31	9.46	13.07	12.41
P/CF		11.72	10.48	10.18	10.27	8.78	7.59	5.64	8.66	8.87	9.74	9.99
P/OwnerEarnings		70.28	21.43	16.78	13.39	11.48	11.28	7.42	11.55	11.03	11.46	11.93
ROE		15.7%	27.2%	28.3%	24.0%	33.3%	36.6%	91.6%	59.3%	64.4%	78.7%	75.5%
ROA		3.7%	7.3%	7.7%	7.5%	9.2%	8.7%	11.3%	12.3%	13.1%	13.6%	14.0%
ROIC		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.7%	21.3%	22.3%	24.5%	23.0%
CROIC		3.4%	11.1%	14.7%	16.2%	22.7%	19.5%	27.2%	24.5%	27.4%	30.6%	29.2%
GPA (Gross Profitability to Assets)		31.4%	31.6%	33.0%	34.5%	37.1%	34.6%	41.7%	40.2%	40.6%	43.1%	43.1%
Book to Market		17.2%	19.8%	20.5%	26.8%	20.8%	21.5%	12.3%	13.5%	12.5%	9.2%	9.7%
Solvency												
Quick Ratio		1.11	1.11	1.10	1.22	1.04	1.14	1.09	1.29	1.13	1.15	1.15
Current Ratio		1.21	1.19	1.18	1.30	1.11	1.20	1.15	1.36	1.19	1.21	1.22
Total Debt/Equity Ratio		3.24	2.75	2.67	2.19	2.62	3.23	7.13	3.82	3.92	4.78	4.37
Long Term Debt/Equity Ratio		0.88	0.61	0.50	0.47	0.48	0.81	1.69	0.97	0.95	1.14	1.13
Short Term Debt/Equity Ratio		0.26	0.24	0.27	0.22	0.31	0.43	0.83	0.18	0.29	0.42	0.43
Efficiency Ratios												
Asset Turnover		0.84	0.85	0.88	0.86	0.89	0.82	0.95	0.88	0.88	0.92	0.90
Cash % of Revenue		6.6%	8.2%	10.4%	13.8%	8.8%	15.2%	12.3%	12.7%	10.7%	11.2%	11.4%
Receivables % of Revenue		33.7%	32.4%	29.2%	26.8%	29.4%	29.1%	26.6%	28.0%	28.3%	27.6%	25.6%
SG&A % of Revenue		23.1%	20.0%	20.1%	23.4%	22.2%	22.3%	22.6%	21.9%	21.9%	22.1%	22.6%
R&D % of Revenue		5.9%	5.7%	5.9%	6.4%	6.7%	6.2%	6.1%	6.1%	6.0%	5.9%	6.0%
Liquidity Ratios												
Days Sales Outstanding		123.0	118.4	106.6	97.8	107.2	106.4	97.1	102.1	103.2	100.9	93.3
Days Inventory Outstanding		22.6	19.1	20.1	19.0	19.3	17.0	17.0	17.5	16.6	16.7	17.2
Days Payable Outstanding		54.7	55.0	57.2	49.1	54.7	51.5	44.2	52.2	52.9	54.8	47.2
Cash Conversion Cycle		90.9	82.5	69.5	67.7	71.8	71.9	69.9	67.4	66.9	62.9	63.4
Receivables Turnover		2.97	3.17	3.38	3.47	3.57	3.55	3.68	3.52	3.63	3.70	3.72
Inventory Turnover		16.17	18.43	19.26	17.74	18.80	20.85	21.61	20.01	21.79	22.50	21.21
Average Age of Inventory (Days)		22.57	19.81	18.95	20.58	19.41	17.51	16.89	18.24	16.75	16.22	17.21
Intangibles % of Book Value		20.5%	26.9%	34.4%	33.5%	52.8%	57.6%	156.7%	100.3%	124.2%	147.0%	147.8%
Inventory % of Revenue		3.9%	3.3%	3.4%	3.1%	3.1%	2.7%	2.6%	2.6%	2.5%	2.4%	2.5%
Capital Structure Ratios												
LT-Debt as % of Invested Capital		35.7%	28.8%	25.2%	27.1%	26.3%	38.4%	41.9%	37.1%	35.7%	36.6%	38.0%
ST-Debt as % of Invested Capital		10.8%	11.3%	13.8%	12.7%	17.0%	20.4%	20.7%	7.1%	11.1%	13.6%	14.6%
LT-Debt as % of Total Debt		27.1%	22.2%	18.7%	21.2%	18.4%	25.1%	23.6%	25.4%	24.2%	23.7%	25.8%
ST-Debt as % of Total Debt		8.2%	8.7%	10.2%	9.9%	11.9%	13.3%	11.7%	4.8%	7.5%	8.8%	9.9%
Total Debt % of Total Assets		76.4%	73.3%	72.8%	68.7%	72.4%	76.4%	87.7%	79.2%	79.7%	82.7%	81.4%
Working Capital % of Price		5.4%	5.0%	4.9%	8.5%	3.3%	6.7%	6.0%	7.7%	4.1%	4.0%	3.9%
Quality Scores												
Piostroski F Score		6.00	6.00	8.00	6.00	8.00	6.00	7.00	8.00	8.00	8.00	7.00
Altman Z Score (Original)		2.73	2.89	2.99	2.98	3.18	2.89	3.12	3.78	3.91	4.24	3.21
Altman Z Score (Revised)		3.97	4.25	4.42	4.61	4.76	4.48	4.75	6.37	6.43	7.05	6.41
Beneish M Score (5 Variable)		-	-2.86	-2.95	-3.09	-2.88	-2.87	-3.02	-2.96	-2.84	-2.91	-2.98
Beneish M Score (8 Variable)		-	-2.68	-2.78	-2.96	-2.69	-2.66	-2.86	-2.79	-2.61	-2.62	-2.72

Earnings Quality Check with Accrual Analysis

Earnings growth due to accrual growth is not sustainable. This is like cookie jar accounting where a company "borrows" earnings from the future to make earnings look good today.

Balance sheet accrual can indicate whether capital is being used properly. A company with high accruals can come from acquiring or merging with companies which expands the asset base. Low balance sheet accrual companies tend to shrink their balance sheet through spin offs, share repurchases or large write offs. In these situations, it is usually removing bad performing assets or returning money to shareholders which is always a good use of capital.

High accruals indicate that the company has expanded its asset base rapidly.

Companies with high balance sheet accruals tend to have higher sales growth than low balance sheet accrual companies.

High balance sheet accruals also have a higher ROE.

Remember that maintaining a high sales growth or high ROE is difficult unless you have an entrenched moat. Such companies revert to the mean and disappoint..

Companies with low balance sheet accruals tend to have below average returns on equity. Analysts expect the company to lag.

Color Coding: Green = safe zone, Yellow = ratio is getting into warning zone, Red = Danger zone. Ratios are too high or low. Requires check.

More studies:
<http://tinyurl.com/6p394ap> <http://tinyurl.com/7ucpoe2>

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM/MRQ
Balance Sheet Accrual Ratio	-	1.8%	-3.7%	1.3%	0.0%	12.2%	-33.8%	5.4%	11.5%	-3.7%	9.1%
Cash Flow Accrual Ratio	-	-3.9%	-3.6%	-6.0%	14.0%	-2.2%	6.7%	-1.7%	9.8%	1.0%	10.5%
Sloan Accrual Ratio	-2.7%	-1.6%	-1.4%	-2.4%	5.8%	-0.8%	2.6%	-0.6%	3.3%	0.3%	3.8%

Earnings	\$ 2.06	\$ 4.32	\$ 4.93	\$ 4.88	\$ 6.11	\$ 7.18	\$ 8.93	\$ 10.01	\$ 11.52	\$ 13.06	\$ 13.86
Stock Price	\$ 76.5	\$ 80.1	\$ 84.8	\$ 75.9	\$ 88.2	\$ 92.9	\$ 79.2	\$ 124.7	\$ 143.7	\$ 180.3	\$ 194.1

Total Assets	\$ 96,484.0	\$ 104,457.0	\$ 109,183.0	\$ 105,748.0	\$ 103,234.0	\$ 120,431.0	\$ 109,524.0	\$ 109,022.0	\$ 113,452.0	\$ 116,433.0	\$ 115,778.0
Cash & Equivalent	\$ 5,382.0	\$ 7,290.0	\$ 10,053.0	\$ 12,568.0	\$ 8,022.0	\$ 14,991.0	\$ 12,741.0	\$ 12,183.0	\$ 10,661.0	\$ 11,922.0	\$ 11,909.0
Total Liabilities	\$ 73,702.0	\$ 76,593.0	\$ 79,436.0	\$ 72,650.0	\$ 74,727.0	\$ 91,961.0	\$ 96,059.0	\$ 86,385.0	\$ 90,406.0	\$ 96,295.0	\$ 94,237.0
Short Term Debt	\$ 6,031.0	\$ 6,646.0	\$ 8,099.0	\$ 7,216.0	\$ 8,902.0	\$ 12,235.0	\$ 11,236.0	\$ 4,168.0	\$ 6,778.0	\$ 8,463.0	\$ 9,334.0
Long Term Debt	\$ 19,986.0	\$ 16,986.0	\$ 14,828.0	\$ 15,425.0	\$ 13,780.0	\$ 23,039.0	\$ 22,689.0	\$ 21,932.0	\$ 21,846.0	\$ 22,857.0	\$ 24,333.0
Net Operating Assets (NOA)	\$ 43,417.0	\$ 44,206.0	\$ 42,621.0	\$ 43,171.0	\$ 43,167.0	\$ 48,753.0	\$ 34,649.0	\$ 36,554.0	\$ 41,009.0	\$ 39,536.0	\$ 43,299.0

Net Income	\$ 3,579.0	\$ 7,583.0	\$ 8,430.0	\$ 7,934.0	\$ 9,492.0	\$ 10,418.0	\$ 12,334.0	\$ 13,425.0	\$ 14,833.0	\$ 15,855.0	\$ 16,261.0
CFO	\$ 13,066.0	\$ 14,407.0	\$ 15,323.0	\$ 14,914.0	\$ 15,007.0	\$ 16,089.0	\$ 18,811.0	\$ 20,773.0	\$ 19,549.0	\$ 19,846.0	\$ 20,336.0
CFI	\$ (6,897.0)	\$ (5,122.0)	\$ (5,346.0)	\$ (4,423.0)	\$ (11,549.0)	\$ (4,675.0)	\$ (9,285.0)	\$ (6,729.0)	\$ (8,507.0)	\$ (4,396.0)	\$ (8,417.0)

Balance Sheet Aggregate Accrual	\$ -	\$ 789.0	\$ (1,585.0)	\$ 550.0	\$ (4.0)	\$ 5,586.0	\$ (14,104.0)	\$ 1,905.0	\$ 4,455.0	\$ (1,473.0)	\$ 3,763.0
Cash Flow Aggregate Accrual	\$ -	\$ (1,702.0)	\$ (1,547.0)	\$ (2,557.0)	\$ 6,034.0	\$ (996.0)	\$ 2,808.0	\$ (619.0)	\$ 3,791.0	\$ 405.0	\$ 4,342.0

Piotroski Score

Piotroski F Scores	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM
	6	6	8	6	8	6	7	8	8	8	7

Piotroski 1: Net Income	1	1	1	1	1	1	1	1	1	1	1
Piotroski 2: Operating Cash Flow	1	1	1	1	1	1	1	1	1	1	1
Piotroski 3: Return on Assets	1	1	1	0	1	0	1	1	1	1	1
Piotroski 4: Quality of Earnings	1	1	1	1	1	1	1	1	1	1	1
Piotroski 5: LT Debt vs Assets	1	1	1	0	1	0	0	1	1	0	0
Piotroski 6: Current Ratio	1	0	0	1	0	1	0	1	0	1	1
Piotroski 7: Shares Outstanding	0	0	1	1	1	1	1	1	1	1	1
Piotroski 8: Gross Margin	0	0	1	1	1	1	1	1	1	1	1
Piotroski 9: Asset Turnover	0	1	1	0	1	0	1	0	1	1	0

Altman Z Score

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	MRQ	MRQ Edit
					Annual						Q3	
Working Capital	\$ 7,102.0	\$ 7,098.0	\$ 7,172.0	\$ 10,509.0	\$ 4,569.0	\$ 8,867.0	\$ 6,569.0	\$ 12,933.0	\$ 7,554.0	\$ 8,805.0	\$ 8,642.0	
Total Assets	\$ 96,484.0	\$ 104,457.0	\$ 109,183.0	\$ 105,748.0	\$ 103,234.0	\$ 120,431.0	\$ 109,524.0	\$ 109,022.0	\$ 113,452.0	\$ 116,433.0	\$ 115,778.0	
Total Liabilities	\$ 73,702.0	\$ 76,593.0	\$ 79,436.0	\$ 72,650.0	\$ 74,727.0	\$ 91,961.0	\$ 96,059.0	\$ 86,385.0	\$ 90,406.0	\$ 96,295.0	\$ 94,237.0	
Retained Earnings	\$ 31,555.0	\$ 37,525.0	\$ 44,525.0	\$ 44,734.0	\$ 52,432.0	\$ 60,640.0	\$ 70,353.0	\$ 80,900.0	\$ 92,532.0	\$ 104,857.0	\$ 112,773.0	
EBITDA	\$ 7,669.0	\$ 11,019.0	\$ 12,167.0	\$ 12,446.0	\$ 13,595.0	\$ 15,100.0	\$ 17,388.0	\$ 18,540.0	\$ 20,091.0	\$ 21,414.0	\$ 5,198.0	
Market Value of Equity	\$ 132,330.4	\$ 140,715.5	\$ 144,895.3	\$ 123,553.6	\$ 137,068.4	\$ 132,157.7	\$ 109,367.3	\$ 167,280.1	\$ 184,980.1	\$ 218,842.4	\$ 219,364.6	
Net Sales	\$ 81,186.0	\$ 89,131.0	\$ 96,293.0	\$ 91,134.0	\$ 91,424.0	\$ 98,786.0	\$ 103,630.0	\$ 95,758.0	\$ 99,871.0	\$ 106,916.0	\$ 24,747.0	

Normal Altman Z Score	2.73	2.89	2.99	2.98	3.18	2.89	3.12	3.78	3.91	4.24	3.21	
Revised Altman Z Score	3.97	4.25	4.42	4.61	4.76	4.48	4.75	6.37	6.43	7.05	6.41	

			Altman Z Score		Revised Altman Z Score	
			Annual	MRQ	Annual	MRQ
X1	0.08	0.07	4.24	3.21	7.05	6.41
X2	0.90	0.97				
X3	0.18	0.04				
X4	2.27	2.33				
X5	0.92	0.21				

The Beneish Model - M Score Variables

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM
M Score - 5 Variable	-	-2.86	-2.95	-3.09	-2.88	-2.87	-3.02	-2.96	-2.84	-2.91	-2.98
M Score - 8 Variable	-	-2.68	-2.78	-2.96	-2.69	-2.66	-2.86	-2.79	-2.61	-2.62	-2.72

DSRI	0.96	0.90	0.92	1.10	0.99	0.91	1.05	1.01	0.98	0.92	0.00
GMI	1.01	0.99	0.93	0.96	0.99	0.96	0.96	0.99	0.98	0.98	0.00
AQI	1.02	1.01	1.02	0.98	1.01	0.97	1.00	1.07	0.98	1.04	0.00
SGI	1.10	1.08	0.95	1.00	1.08	1.05	0.92	1.04	1.07	0.98	0.00
DEPI	0.96	0.99	0.89	1.07	1.00	0.93	1.06	1.02	0.99	1.02	0.00
SGAI	0.87	1.01	1.16	0.95	1.01	1.01	0.97	1.00	1.01	1.03	0.00
TATA	-0.07	-0.06	-0.07	-0.05	-0.05	-0.06	-0.07	-0.04	-0.03	-0.04	0.00
LVGI	0.93	0.95	0.96	1.09	1.07	1.06	0.89	1.04	1.01	0.99	0.00

International Business Machines Corp.
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Free Cash Flow



Stock Price



FCF / Sales



Cash Return on Invested Capital (CROIC)



Magic Formula Investing -- Earnings Yield



Gross Margin



Piotroski F score



Beneish M Score - 8 Variable Version



Debt to Equity



FCF to Short Term Debt



Figures in Millions except per share values

Owner Earnings



Diluted EPS



Price / FCF



FCF Yield



Magic Formula Investing -- Return on Capital



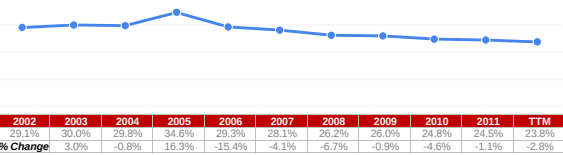
Net Profit Margin



Original Altman Z Score



Tax Rate



FCF to Total Debt



FCF to Long Term Debt



International Business Machines Corp.
(IBM)

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	IBM	SAP	ORCL	FFIV	CSCO					
Company	International Business Machines Corp.	SAP AG	Oracle Corporation	F5 Networks, Inc.	Cisco Systems, Inc.					
Sector	Technology	Technology	Technology	Technology	Technology					
Industry	Diversified Computer Systems	Application Software	Application Software	Application Software	Networking & Communication Devices					
Country	USA	Germany	USA	USA	USA					
Earnings Date	16-Oct-2012	26-Jan-2011	20-Sep-2012	24-Oct-2012	13-Nov-2012					
Price	\$194.14	\$72.95	\$31.25	\$85.13	\$17.40					
Market Cap	\$219,364.61	\$89,607.40	\$150,595.63	\$6,701.43	\$92,262.63					
Change	0.37%	0.11%	0.13%	3.08%	0.29%					
Volume	2,736,200	647,800	13,590,100	1,747,200	22,190,800					
Change from Open	0.93%	0.34%	0.97%	3.70%	0.40%					
Gap	-0.55%	-0.23%	-0.83%	-0.61%	-0.12%					
50-Day High	-8.33%	-1.33%	-5.95%	-23.70%	-11.22%					
50-Day Low	1.88%	14.04%	3.10%	5.01%	2.35%					
52-Week High	-8.33%	-1.33%	-6.66%	-38.96%	-17.02%					
52-Week Low	11.01%	45.61%	26.48%	5.01%	17.15%					
P/E	13.98	23.16	15.47	24.68	11.68					
Forward P/E	11.67	20.32	10.74	14.73	8.33					
PEG	1.41	1.97	1.28	1.30	1.35					
P/S	2.10	4.45	4.08	4.87	2.00					
P/B	10.19	5.05	3.49	5.04	1.80					
P/Cash	17.90	17.78	4.76	12.59	1.89					
P/Free Cash Flow	18.44	20.65	12.37	14.40	10.41					
Dividend Yield	1.75%	1.29%	0.77%	0.00%	3.22%					
Payout Ratio	22.73%	44.84%	11.64%	0.00%	18.67%					
EPS (ttm)	\$13.89	\$3.15	\$2.02	\$3.45	\$1.49					
EPS growth this year	13.37%	89.68%	17.53%	16.43%	27.54%					
EPS growth next year	9.98%	15.80%	9.81%	15.83%	7.18%					
EPS growth past 5 years	16.60%	13.59%	19.28%	30.70%	4.92%					
EPS growth next 5 years	9.92%	11.76%	12.05%	18.97%	8.68%					
Sales growth past 5 years	3.18%	8.67%	15.58%	21.24%	5.69%					
EPS growth quarter over quarter	4.43%	-50.76%	15.27%	1.85%	59.73%					
Sales growth quarter over quarter	-5.39%	15.93%	-2.30%	15.24%	4.42%					
Return on Assets	14.39%	12.81%	13.53%	15.82%	8.99%					
Return on Equity	74.18%	23.70%	24.16%	22.60%	16.32%					
Return on Investment	21.65%	17.36%	16.59%	20.84%	11.20%					
Current Ratio	1.22	1.03	2.74	1.67	3.49					
Quick Ratio	1.15	0.00	2.72	1.63	3.40					
LT Debt/Equity	1.13	0.07	0.31	0.00	0.32					
Total Debt/Equity	1.56	0.21	0.34	0.00	0.32					
Gross Margin	47.62%	68.15%	79.30%	82.85%	61.24%					
Operating Margin	20.39%	26.38%	37.65%	30.95%	21.82%					
Profit Margin	15.53%	18.59%	27.55%	19.98%	17.46%					
Shares Outstanding	1,129.93	1,228.34	4,819.06	78.72	5,302.45					
Shares Float	1,128.88	936.50	3,710.81	78.43	5,296.22					
Insider Ownership	0.06%	0.00%	23.00%	0.26%	0.16%					
Insider Transactions	4.63%	0.00%	0.09%	-28.10%	8.85%					
Institutional Ownership	60.34%	4.19%	62.20%	0.00%	71.67%					
Institutional Transactions	0.05%	1.40%	0.18%	-0.19%	0.26%					
Float Short	1.36%	0.71%	0.96%	4.43%	1.05%					
Short Ratio	4.1	5.2	1.6	1.9	1.4					
Performance (Week)	1.33%	2.83%	1.26%	2.57%	1.16%					
Performance (Month)	-7.78%	3.20%	-1.61%	-20.44%	-8.08%					
Performance (Quarter)	-1.79%	12.49%	1.92%	-8.25%	7.21%					
Performance (Half Year)	-4.49%	18.95%	10.42%	-35.46%	-7.89%					
Performance (Year)	7.30%	24.21%	-2.37%	-18.64%	-0.63%					
Performance (Year)	7.30%	24.21%	-2.37%	-18.64%	-0.63%					
Beta	0.66	1.26	1.09	1.48	1.24					
Average True Range	3.21	1.30	0.58	3.80	0.38					
Volatility (Week)	1.68%	1.15%	1.83%	4.18%	2.21%					
Volatility (Month)	1.41%	1.48%	1.74%	3.53%	2.01%					
20-Day Simple Moving Average	-3.25%	2.55%	0.68%	-10.50%	-4.21%					
50-Day Simple Moving Average	-3.69%	4.34%	-1.04%	-14.38%	-6.66%					
200-Day Simple Moving Average	-1.68%	13.90%	6.03%	-23.57%	-4.97%					
Relative Strength Index (14)	41.83	61.09	50.77	36.63	37.02					
Analyst Recom	2.50	2.70	2.20	2.30	2.20					
Average Volume	3,750.08	1,289.18	21,803.83	1,854.36	38,888.14					
Relative Volume	0.73	0.49	0.62	0.94	0.57					

International Business Machines C (IBM)

11/6/2012

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Shares Out.	M.O.S	Growth	Discount %	Terminal %	Select FCF	Adjust 2011 FCF
1,129.93	50%	11.0%	9.0%	0%	Owner Earnings	
		11.0%				
Current Price	Fair Value	Buy Under	Actual M.O.S	52 Wk High	52 Wk Low	
\$194.14	\$272.05	\$136.03	29%	\$211.79	\$177.06	

Fiscal Year	Trend	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM
Cash Flow Data												
Cash from Operations		\$13,066.0	\$14,407.0	\$15,323.0	\$14,914.0	\$15,007.0	\$16,089.0	\$18,811.0	\$20,773.0	\$19,549.0	\$19,846.0	\$20,336.0
Capex		(\$4,753.0)	(\$4,393.0)	(\$4,368.0)	(\$3,842.0)	(\$5,166.0)	(\$5,505.0)	(\$4,887.0)	(\$4,077.0)	(\$4,754.0)	(\$4,667.0)	(\$4,744.0)
Cash Flow		\$11,291.9	\$13,430.2	\$14,228.4	\$12,034.8	\$15,610.6	\$17,416.3	\$19,388.3	\$19,306.3	\$20,859.3	\$22,471.6	\$22,340.6
Owner Earnings FCF		\$1,883.0	\$6,567.0	\$8,633.0	\$9,224.0	\$11,935.0	\$11,717.0	\$14,748.0	\$14,482.0	\$16,776.0	\$19,089.0	\$18,707.0
	YOY% Change		248.8%	31.5%	6.8%	29.4%	-1.8%	25.9%	-1.8%	15.8%	13.8%	-2.0%

Margins												
Gross Margin		37.3%	37.0%	37.4%	40.1%	41.9%	42.2%	44.1%	45.7%	46.1%	46.9%	47.6%
Operating Margin		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	17.8%	18.2%	19.0%	18.4%
Net Margin		4.4%	8.5%	8.8%	8.7%	10.4%	10.5%	11.9%	14.0%	14.9%	14.8%	15.5%

EPS & Tax												
Diluted EPS		\$2.06	\$4.32	\$4.93	\$4.88	\$6.11	\$7.18	\$8.93	\$10.01	\$11.52	\$13.06	\$13.86
Tax Rate		29.1%	30.0%	29.8%	34.6%	29.3%	28.1%	26.2%	26.0%	24.8%	24.5%	23.8%

Efficiency & Profitability												
CROIC		3.4%	11.1%	14.7%	16.2%	22.7%	19.5%	27.2%	24.5%	27.4%	30.6%	29.2%
FCF/Sales		2.3%	7.4%	9.0%	10.1%	13.1%	11.9%	14.2%	15.1%	16.8%	17.9%	17.9%
Inventory Turnover		16.2	18.4	19.3	17.7	18.8	20.8	21.6	20.0	21.8	22.5	21.2
Return On Assets (ROA)		3.7%	7.3%	7.7%	7.5%	9.2%	8.7%	11.3%	12.3%	13.1%	13.6%	14.0%
Return On Equity (ROE)		15.7%	27.2%	28.3%	24.0%	33.3%	36.6%	91.6%	59.3%	64.4%	78.7%	75.5%

Debt Related												
Debt to Equity		323.5%	274.9%	267.0%	219.5%	262.1%	323.0%	713.4%	381.6%	392.3%	478.2%	437.5%
Capitalization Ratio		46.7%	37.9%	33.3%	31.8%	32.6%	44.7%	62.8%	49.2%	48.7%	53.2%	53.0%
FCF to Total Debt		2.6%	8.6%	10.9%	12.7%	16.0%	12.7%	15.4%	16.8%	18.6%	19.8%	19.9%
FCF to Short Term Debt		31.2%	98.8%	106.6%	127.8%	134.1%	95.8%	131.3%	347.5%	247.5%	225.6%	200.4%
FCF to Long Term Debt		9.4%	38.7%	58.2%	59.8%	86.6%	50.9%	65.0%	66.0%	76.8%	83.5%	76.9%

5 Year Multi-Year Performance

	2006-2010	2007-2011	2006-2009	2007-2010	2008-2011	2006-2008	2007-2009	2008-2010	2009-2011	Median
Tang Shareholder Equity	-7.1%	-10.7%	-8.5%	-9.5%	16.5%	-36.6%	-12.6%	35.9%	-8.8%	-8.8%
Owner Earnings FCF	8.9%	13.0%	6.7%	12.7%	9.0%	11.2%	11.2%	6.7%	14.8%	11.2%
CROIC	24.5%	27.2%	23.6%	25.9%	27.3%	22.7%	24.5%	27.2%	27.4%	25.9%
FCF/Sales	14.2%	15.1%	13.6%	14.7%	16.0%	13.1%	14.2%	15.1%	16.8%	14.7%
ROA	11.3%	12.3%	10.2%	11.8%	12.7%	9.2%	11.3%	12.3%	13.1%	11.8%
ROE	59.3%	64.4%	47.9%	61.8%	71.5%	36.6%	59.3%	64.4%	61.8%	61.8%
Gross Margin	44.1%	45.7%	43.2%	44.9%	45.9%	42.2%	44.1%	45.7%	46.1%	44.9%
Operating Margin	15.4%	17.8%	7.7%	16.6%	18.0%	0.0%	15.4%	17.8%	18.2%	16.6%
Net Margin	11.9%	14.0%	11.2%	13.0%	14.4%	10.5%	11.9%	14.0%	14.8%	13.0%
Revenue Growth	2.2%	2.0%	1.6%	0.4%	1.0%	6.5%	-1.5%	-1.8%	5.7%	1.6%
Earnings Growth	17.2%	16.1%	17.9%	17.1%	13.5%	20.9%	18.1%	13.6%	14.2%	17.1%
Cash from Ops Growth	6.8%	5.4%	11.4%	6.7%	1.8%	12.0%	13.6%	1.9%	-2.3%	6.7%

10 Year Multi-Year Performance

	2002-2009	2003-2010	2004-2011	2002-2007	2003-2008	2004-2009	2005-2010	2006-2011	2002-2011	Median
Tang Shareholder Equity	1.5%	-0.6%	-2.2%	7.8%	-12.3%	0.6%	-2.3%	-8.6%	-0.9%	-0.9%
Owner Earnings FCF	33.8%	14.3%	12.0%	44.1%	17.6%	10.9%	12.7%	9.8%	29.4%	14.3%
CROIC	17.9%	21.1%	23.6%	15.4%	17.9%	21.1%	23.6%	25.9%	27.2%	21.1%
FCF/Sales	11.0%	12.5%	13.6%	9.5%	11.0%	12.5%	13.6%	14.7%	12.5%	12.5%
ROA	8.2%	8.9%	10.2%	7.6%	8.2%	8.9%	10.2%	11.8%	8.9%	8.9%
ROE	30.8%	34.9%	47.9%	27.8%	30.8%	34.9%	47.9%	61.8%	34.9%	34.9%
Gross Margin	41.0%	42.1%	43.2%	38.8%	41.0%	42.1%	43.2%	44.9%	42.1%	42.1%
Operating Margin	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	7.7%	16.6%	0.0%	0.0%
Net Margin	9.6%	10.5%	11.2%	8.7%	9.6%	10.5%	11.2%	13.0%	10.5%	10.5%
Revenue Growth	2.4%	1.6%	1.5%	4.0%	3.1%	-0.1%	1.8%	3.2%	3.1%	2.4%
Earnings Growth	25.3%	15.0%	14.9%	28.4%	15.6%	15.2%	18.7%	16.4%	22.8%	16.4%
Cash from Ops Growth	6.8%	4.5%	3.8%	4.3%	5.5%	6.3%	5.6%	5.7%	4.8%	5.5%

Projection of future Free Cash Flow

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Yearly Growth Input Field										
11%	\$21,188.79	\$23,519.56	\$26,106.71	\$27,846.71	\$30,603.54	\$33,633.29	\$36,962.98	\$37,785.51	\$41,152.19	\$44,818.86
Terminal Growth										
0%	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86	\$ 44,818.86

Calculation

Total Cash	\$ 12,254.00
MAX(0,Current Liabilities-Current A	\$ -
Excess Cash	\$ 12,254.00
Adding some Intangibles	\$ -
Interest Bearing Debt	\$ 22,480.36
Present Value	\$ 307,401.72
Shares Outstanding	1129.932
Per Share Value	\$ 272.05
Desired Margin of Safety	50%
Purchase Price	\$ 136.03
Current Price	\$ 194.14
Margin of Safety	29%

Sensitivity Matrix: Growth vs Discount Rate

		Discount Rates				
		7%	8%	9%	10%	11%
Growth Rates	7%	\$ 257.63	\$ 236.27	\$ 217.36	\$ 200.57	\$ 185.62
	9%	\$ 289.71	\$ 265.21	\$ 243.55	\$ 224.34	\$ 207.26
	11%	\$ 325.72	\$ 297.66	\$ 272.88	\$ 250.93	\$ 231.42
	13%	\$ 366.11	\$ 334.02	\$ 305.71	\$ 280.65	\$ 258.40
	15%	\$ 411.39	\$ 374.73	\$ 342.42	\$ 313.85	\$ 288.51

Sensitivity Matrix: Margin of Safety %

		Discount Rates				
		7%	8%	9%	10%	11%
Growth Rates	7%	24.6%	17.8%	10.7%	3.2%	-4.6%
	9%	33.0%	26.8%	20.3%	13.5%	6.3%
	11%	40.4%	34.8%	28.9%	22.6%	16.1%
	13%	47.0%	41.9%	36.5%	30.8%	24.9%
	15%	52.8%	48.2%	43.3%	38.1%	32.7%

Variable Fields

Intangibles% add to DCF	0%
Decay Rate (Yr4E-Yr7E)	10%
Extra Decay (Yr8E-Yr10E)	10%

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Enter Ticker	Refresh	CLEAR	Current Price	Intrinsic \$	Buy Under	Actual M.O.S	52 Wk High	52 Wk Low
			\$194.14	\$346.74	\$117.89	44%	\$211.79	\$177.06

5 Yr EPS Growth	2006-2010	2007-2011	2006-2009	2007-2010	2008-2011	2006-2008	2007-2009	2008-2010	2009-2011	Median
	17.2%	16.1%	17.9%	17.1%	13.5%	20.9%	18.1%	13.6%	14.2%	17.1%

10 Yr EPS Growth	2002-2009	2003-2010	2004-2011	2002-2007	2003-2008	2004-2009	2005-2010	2006-2011	Median
	25.3%	15.0%	14.9%	28.4%	15.6%	15.2%	18.7%	16.4%	16.4%

Diltued EPS	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	TTM
	\$ 2.06	\$ 4.32	\$ 4.93	\$ 4.88	\$ 6.11	\$ 7.18	\$ 8.93	\$ 10.01	\$ 11.52	\$ 13.06	\$ 13.86
Forecast Method	2012E	2013E									
Linear Regression Method	\$ 13.57	\$ 15.38									
Analyst Estimate	\$ 12.48	\$ 14.15									
	\$ 15.13	\$ 16.64									

Graham Value Calculation

Normal Earnings	\$ 13.57
Growth Rate	13.33%
Corp Bond Rate	3.50
Per Share Value	\$ 346.74
MOS	66%
Purchase Price	\$ 117.89
Current Price	\$194.14
Actual Discount	44%

Graham's Sensitivity Matrix

Growth Sensitivity Incremen	10%
EPS Sensivity Increments	10%

Shares Out.	M.O.S	Growth	Projection	EPS	Corp Bond
1,129.93	66%	13.3%	Forecast	\$13.57	3.50



		EPS				
		\$ 10.85	\$ 12.21	\$ 13.57	\$ 14.92	\$ 16.28
Growth	10.7%	\$ 241.01	\$ 271.14	\$ 301.27	\$ 331.39	\$ 361.52
	12.0%	\$ 259.20	\$ 291.60	\$ 324.00	\$ 356.40	\$ 388.80
	13.3%	\$ 277.39	\$ 312.06	\$ 346.74	\$ 381.41	\$ 416.08
	14.7%	\$ 295.58	\$ 332.52	\$ 369.47	\$ 406.42	\$ 443.36
	17.6%	\$ 335.59	\$ 377.54	\$ 419.49	\$ 461.43	\$ 503.38

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Current EPS Exp Growth	Dividend Yield	Business Risk	Financial Risk	Earnings Predictability
10%	1.65%	Excellent	Above Average	Excellent
Current PE		16 of 20 pts	14 of 20 pts	18 of 20 pts

Katsenelson Absolute PE	Current Price	Fair Value	Fair Value PE	Current PE	FV Exp Grth	M.O.S
	\$194.14	\$255.44	18.43	13.98	18%	24%

Determine Business Risk	2007	2008	2009	2010	2011	TTM	AVERAGE	STDEV
ROE	36.59%	91.60%	59.31%	64.36%	78.73%	75.49%	67.7%	19.0%
Consistency/quality check		1	1	1	1	1	5	
ROA	8.65%	11.26%	12.31%	13.07%	13.62%	14.04%	12.2%	2.0%
Consistency/quality check		1	1	1	1	1	5	
CROIC	19.54%	27.22%	24.53%	27.39%	30.60%	29.22%	26.4%	3.9%
Consistency/quality check		1	1	1	1	1	5	
Intangibles % of Book Value	57.58%	156.73%	100.29%	124.20%	147.01%	147.78%	122.3%	37.7%
Consistency/quality check		0	1	0	0	0	1	

Business Risk Factor:	16 pts out of 20	Excellent 6% Factor	16	0.0%
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Determine Financial Risk	2007	2008	2009	2010	2011	TTM	AVERAGE	STDEV
Current Ratio	1.20	1.15	1.36	1.19	1.21	1.22	1.22	0.07
Consistency/quality check		0	1	0	1	1	3	
Total Debt/Equity Ratio	3.23	7.13	3.82	3.92	4.78	4.37	4.54	1.37
Consistency/quality check		0	1	0	0	1	2	
Short Term Debt/Equity Ratio	0.43	0.83	0.18	0.29	0.42	0.43	0.43	0.22
Consistency/quality check		0	1	1	1	1	4	
FCF to Total Debt	12.74%	15.35%	16.76%	18.56%	19.82%	19.85%	17.2%	2.8%
Consistency/quality check		1	1	1	1	1	5	

Financial Risk Factor:	14 pts out of 20	Above Average 4% Factor	14	0.0%
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Determine Earnings Predictability	2007	2008	2009	2010	2011	TTM	AVERAGE	STDEV
Gross Margin	42.24%	44.06%	45.72%	46.07%	46.89%	47.62%	45.4%	2.0%
Consistency/quality check		1	1	1	1	1	5	
Net Margin	10.55%	11.90%	14.02%	14.85%	14.83%	15.53%	13.6%	2.0%
Consistency/quality check		1	1	1	0	1	4	
Earnings	\$7.18	\$8.93	\$10.01	\$11.52	\$13.06	\$13.86	10.76	2.54
Consistency/quality check		1	1	1	1	1	5	
Cash from Ops	\$16,089.00	\$18,811.00	\$20,773.00	\$19,549.00	\$19,846.00	\$20,336.00	\$19,234.00	1680.87
Consistency/quality check		1	1	0	1	1	4	

Earnings Predict. Factor:	18 pts out of 20	Excellent 8% Factor	18	0.0%
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Katsenelson Absolute PE Valuation Model

Earnings Growth	10.00%	13.98
Dividend Yield	1.65%	1.50
	=	
Adjusted Base PE		15.48
	x	
Business Risk	Excellent [1 + (1 - 0.94)]	
Premium/Discount Factor:	0.94	x
Financial Risk	Above Average [1 + (1 - 0.96)]	
Premium/Discount Factor:	0.96	x
Earnings Predictability	Excellent [1 + (1 - 0.92)]	
Premium/Discount Factor:	0.92	=
Adjusted Fair Value PE	18%	18.43

P/E	Exp EPS Grwth Rate
7.00	0%
7.65	1%
8.30	2%
8.95	3%
9.60	4%
10.25	5%
10.90	6%
11.55	7%
12.20	8%
12.85	9%
13.50	10%
14.15	11%
14.80	12%
15.45	13%
16.10	14%
16.75	15%
17.40	16%
17.90	17%
18.40	18%
18.90	19%
19.40	20%
19.90	21%
20.40	22%
20.90	23%
21.40	24%
21.90	25%

Dividend Yield	Add'l P/E Points
0.0%	0.0
0.1%	0.5
0.5%	0.5
1.0%	1.0
1.5%	1.5
2.0%	2.0
2.5%	2.5
3.0%	3.0
3.5%	3.5
4.0%	4.0
4.5%	4.5
5.0%	5.0
5.5%	5.5
6.0%	6.0
6.5%	6.5
10.0%	10.0

Δ0.65

Δ0.50

International Business Machines Corp.

(IBM)

11/6/2012

Figures in Millions except per share values

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Asset Valuation Section

Data: Asset Valuation

Shares Outstanding	1129.9
Balance Sheet Assets	\$ 98,298.0
Adjusted Assets	\$ 98,298.0
Total Liabilities	\$ 94,237.0
Total Equity	\$ 4,061.0
Average SGA %	22.1%
Marketing/Brand Value	\$ 23,673.6
R&D Value	\$ 14,546.4
Cash Needed for Business	\$ 1,046.9
Interest Bearing Debt	\$ 33,667.0
Non Interest Bearing Debt	\$ 49,215.0
Excess Cash	\$ 10,115.7

Calculation: Asset Valuation

	Total	Per Share
Tangible BV	\$ (27,772)	\$ (24.58)
Adjusted BV	\$ 4,061	\$ 3.59
NCAV	\$ (67,559)	\$ (59.79)
Reprod. Cost of Assets	\$ 136,518	\$ 120.82
Reprod. Cost of Assets BV	\$ 42,281	\$ 37.42
Total Net Reprod. Cost	\$ 77,187	\$ 68.31

Quarterly numbers based on:

Q3

Adjustments:

Assets

	Book Value	Fixed BV	Multiplier	Reproduction Asset Value
Cash & Equivalents	\$ 11,909.0			\$ 11,909.0
Marketable Securities	\$ 345.0			\$ 345.0
Accounts Receivable	\$ 11,838.0			\$ 11,838.0
Other Receivable	\$ -			\$ -
Net Receivables	\$ 11,838.0			\$ 11,838.0
<i>Inventories: Raw Materials</i>	\$ -			
<i>Inventories: Work in Progress</i>	\$ 1,937.0			
<i>Inventories: Purchased Components</i>	\$ -			
<i>Inventories: Finished Goods</i>	\$ 649.0			
<i>Inventories: Other</i>	\$ -			
Inventories -- Total	\$ 2,586.0			\$ 2,586.0
Prepaid Expenses	\$ 5,016.0			\$ 5,016.0
Current Deferred Income Taxes	\$ 1,522.0			\$ 1,522.0
Other Current Assets	\$ -			\$ -
Total Current Assets	\$ 33,216.0			\$ 33,216.0
Goodwill, Net	\$ 28,270.0			\$ 28,270.0
Intangibles, Net	\$ 3,563.0			\$ 3,563.0
Intangibles	\$ 31,833.0			\$ 31,833.0
Property/Plant/Equipment - Net	\$ 14,028.0			\$ 14,028.0
Other Long Term Assets, Total	\$ 19,221.0			\$ 19,221.0
Total Assets	\$ 98,298.0			\$ 98,298.0

Shares Out.	Main. Capex	Normalized Income	Discount Rate	R&D Years	SG&A %
1,129.93	\$4,224.35	\$19,003.26	9%	3	25%

Current Price	EPV	Net Reproduction Value	EPV MOS	NCAV	52 Wk High	52 Wk Low
\$194.14	\$125.45	\$68.31	0.0%	(\$59.79)	\$211.79	\$177.06

EPV Valuation Section

Values for Normalized Income

TTM Owner Earnings FCF	\$ 18,707.0
Avg Normalized Income	\$ 18,539.1
Med Normalized Income	\$ 19,430.8
Avg Adj. Income 5 yrs	\$ 16,951.3
TTM Adjusted Income	\$ 21,388.1

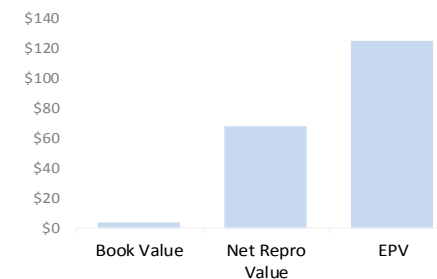
EPV > Net Repro Value = Moat exists

EPV = Net Repro Value = No Moat

EPV < Net Repro Value = Value Destroyer

Data: EPV

Cost of Capital	9.0%
Normalized Adjusted Income	\$ 19,003.3
Average Maintenance Capex	\$ 4,224.4
Interest Bearing Debt	\$ 33,667.0
1% of sales	\$ 1,046.9
Cash & Equiv	\$ 12,254.0
Cash - Debt	\$ (22,459.9)
Shares	1129.93



Calculation: EPV

Cost of Capital Rates	EPV	Per Share	+ Cash - Debt	Per Share
5%	\$ 295,578.2	\$ 261.59	\$ 273,118.3	\$ 241.71
7%	\$ 211,127.3	\$ 186.85	\$ 188,667.4	\$ 166.97
9%	\$ 164,210.1	\$ 145.33	\$ 141,750.2	\$ 125.45
11%	\$ 134,353.7	\$ 118.90	\$ 111,893.8	\$ 99.03
13%	\$ 113,683.9	\$ 100.61	\$ 91,224.0	\$ 80.73

Adjustments:

Liabilities & Equity

	Book Value	Fixed BV	Multiplier	Reproduction Liability Value
Accounts Payable	\$ 7,085.0			\$ 7,085.0
Accrued Expenses	\$ -			\$ -
Accrued Liabilities	\$ 9,703.0			\$ 9,703.0
Notes Payable/Short Term Debt	\$ 9,334.0			\$ 9,334.0
Current Port. of LT Debt/Capital				
Leases	\$ -			\$ -
Other Current Liabilities	\$ 2,147.0			\$ 2,147.0
Total Current Liabilities	\$ 28,269.0			\$ 28,269.0
Long-Term Debt	\$ 24,333.0			\$ 24,333.0
Capital Lease Obligations	\$ -			\$ -
Deferred Income Taxes	\$ -			\$ -
Total Other Liabilities	\$ 30,280.0			\$ 30,280.0
Total Liabilities	\$ 94,237.0			\$ 94,237.0
Common Stock Equity	\$ 21,541.0			\$ 21,541.0
Retained Earnings	\$ 112,773.0			\$ 112,773.0
Total Capitalization	\$ 45,874.0			\$ 45,874.0
Total Equity	\$ 21,541.0			\$ 4,061.0
Total Liabilities & Equity	\$ 115,778.0			\$ 115,778.0

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