

Cognizant Technology Solutions Corporation (ctsh)



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Company Overview

Cognizant Technology Solutions Corporation provides information technology (IT), consulting, and business process outsourcing services worldwide. The company operates through four segments: Financial Services; Healthcare; Manufacturing, Retail, and Logistics; and Other. It offers consulting and technology services, such as IT strategy, program management, operations improvement, strategy, and business consulting services; and application design and development, systems integration, and enterprise resource planning and customer relationship management implementation services. It also provides enterprise information management services, such as strategic, advisory, and management consulting; enterprise data management; descriptive analytics/business intelligence; strategic corporate performance management; and packaged analytics services, as well as big data services that assist clients in managing and deriving actionable insights from the explosion in the volume, variety, velocity, and complexity of data. In addition, the company offers application testing services, as well as helps its clients in adopting social, mobile, analytics, and cloud-based technologies to

Valuation

Current Price	\$	75.81
NCAV	\$	11.42
Total Net Reprod. Cost	\$	13.74
Earnings Power Value (EPV)	\$	45.50
Discounted Cash Flow (DCF)	\$	105.73
Katsenelson Absolute PE	\$	90.68
Ben Graham Formula	\$	115.32

Key Statistics

Mkt Cap (\$M)	\$	22,836.42
52 Wk High	\$	81.08
52 Wk Low	\$	60.92
% off 52Wk Low		24.5%

Cash Flows

Free Cash Flow		
5 yr FCF Growth		34.0%
10 yr FCF Growth		38.9%

Effectiveness

CROIC		
Avg		36.8%
FCF/S		
Avg		11.4%
ROA		
Avg		16.0%
ROE		
Avg		21.2%

Efficiency

Receivables Turnover (TTM)		4.8
Inventory Turnover (TTM)		0.0
Days Sales Outstanding (TTM)		81.2

Margin of Safety

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Company Stats

Shares Outstanding	301.7
Shares Float	299.5
Insider Ownership	0.20%
Insider Transactions	8.8%
Institutional Ownersh	93.4%
Float Short	1.5%
Short Ratio	1.7
Piotroski (TTM)	8
Altman (MRQ)	10.3
Beneish (TTM)	-2.7

Margins & Profitability

Gross		
Gross Margin		41.5%
Operating		
Operating Margin		19.4%
Net Profit		
Net Margin		14.2%

Financial Strength (MRQ)

Current Ratio(MRQ)	3.8
Quick Ratio(MRQ)	3.8
LTD/Eq(MRQ)	0.0
Tot D/Eq(MRQ)	0.0

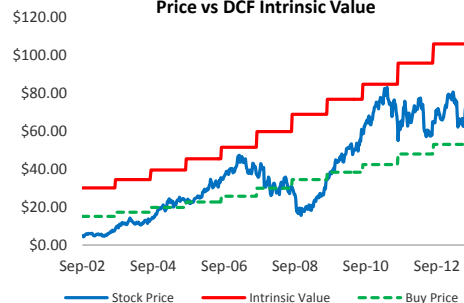
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September 5, 2013

Figures in Millions except per share values



Price vs DCF Intrinsic Value



Fundamental Ratios

	2011	2012	TTM
P/E	23.33	21.87	20.25
P/E (cash adjusted)	20.57	19.15	17.71
EV/EBITDA	14.42	13.26	12.05
EV/Free Cash Flow	30.97	24.02	23.26
P/S	3.37	3.13	2.88
P/BV	5.21	4.74	4.34
P/Tang BV	5.78	5.16	4.82
P/CF	16.37	15.16	14.35
P/FCF	35.12	27.44	26.60
ROE	22.4%	21.7%	21.4%
ROA	16.0%	16.1%	16.3%
ROIC	47.4%	46.1%	41.4%
CROIC	31.5%	36.8%	31.5%
Current Ratio	3.38	3.50	3.78
Total Debt/Equity Ratio	0.00	0.00	0.00
Inventory Turnover	0.00	0.00	0.00

Selected Financial Statements

(In Millions, Except per Share Amounts)

	2008	2009	2010	2011	2012	TTM/Latest
Revenue	\$ 2,816	\$ 3,279	\$ 4,592	\$ 6,121	\$ 7,346	\$ 8,022
Gross Profit	\$ 1,243	\$ 1,429	\$ 1,938	\$ 2,583	\$ 3,068	\$ 3,287
Margin %	44.15%	43.59%	42.20%	42.19%	41.76%	40.98%
R&D	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Margin %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operating Income	\$ 517	\$ 618	\$ 862	\$ 1,136	\$ 1,361	\$ 1,504
Margin %	18.35%	18.86%	18.77%	18.57%	18.53%	18.75%
Net Income	\$ 431	\$ 535	\$ 734	\$ 884	\$ 1,051	\$ 1,140
Margin %	15.30%	16.32%	15.97%	14.44%	14.31%	14.21%

Earnings Per Share

Basic	\$ 1.49	\$ 1.82	\$ 2.44	\$ 2.91	\$ 3.49	\$ 3.79
Diluted	\$ 1.44	\$ 1.78	\$ 2.37	\$ 2.85	\$ 3.44	\$ 3.74

Weighted Average Diluted Shares

Outstanding	298.94	301.12	309.14	310.35	305.86	304.45
Dividends Per Share	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Dividend Yield	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Net Cash From Operating Activities	\$ 430	\$ 672	\$ 765	\$ 875	\$ 1,173	\$ 1,186

(Dollars in Millions)

Net Property, Plants & Equipment	\$ 455	\$ 482	\$ 570	\$ 758	\$ 971	\$ 1,018
Total Assets	\$ 2,375	\$ 3,338	\$ 4,583	\$ 5,508	\$ 6,522	\$ 7,012
Long-term Debt	\$ 21	\$ 38	\$ 68	\$ 345	\$ 290	\$ 331
Stockholders' Equity	\$ 1,966	\$ 2,653	\$ 3,584	\$ 3,953	\$ 4,854	\$ 5,324

		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM
Financial Statistics & Ratios												
Valuation Ratios												
P/E		60.37	57.62	45.36	49.88	26.88	13.93	26.38	31.65	23.33	21.87	20.25
P/E (cash adjusted)		56.99	54.48	42.81	47.09	24.96	12.16	23.76	28.61	20.57	19.15	17.71
EV/EBITDA		40.03	40.74	35.76	37.40	20.07	8.86	17.96	21.59	14.42	13.26	12.05
EV/Free Cash Flow		65.55	67.63	80.89	74.00	54.01	20.13	21.34	36.24	30.97	24.02	23.26
P/S		9.41	9.85	8.51	8.15	4.41	2.13	4.30	5.05	3.37	3.13	2.88
P/BV		12.64	12.74	10.56	10.82	6.41	3.05	5.32	6.48	5.21	4.74	4.34
P/Tang BV		13.68	13.38	11.10	11.32	7.39	3.40	5.92	7.09	5.78	5.16	4.82
P/CF		34.56	35.70	28.76	32.08	16.58	8.59	19.23	22.04	16.37	15.16	14.35
P/FCF		69.44	71.53	85.71	78.38	58.15	23.06	23.69	40.08	35.12	27.44	26.60
ROE		20.9%	22.1%	23.3%	21.7%	23.8%	21.9%	20.2%	20.5%	22.4%	21.7%	21.4%
ROA		15.9%	17.5%	19.1%	17.6%	19.0%	18.1%	16.0%	16.0%	16.0%	16.1%	16.3%
ROIC		55.3%	70.1%	57.3%	54.4%	42.3%	35.2%	41.4%	51.4%	47.4%	46.1%	41.4%
CROIC		48.1%	56.5%	30.3%	34.6%	19.6%	21.3%	46.1%	40.6%	31.5%	36.8%	31.5%
GPA (Gross Profitability to Assets)		46.7%	46.6%	46.7%	48.0%	50.6%	52.4%	42.8%	42.3%	46.9%	47.0%	46.9%
Book to Market		7.9%	7.9%	9.5%	9.2%	15.6%	32.7%	18.8%	15.4%	19.2%	21.1%	23.1%
Solvency												
Quick Ratio		4.45	3.95	4.26	4.17	3.65	3.79	3.57	3.78	3.38	3.50	3.78
Current Ratio		4.45	3.95	4.26	4.17	3.65	3.79	3.57	3.78	3.38	3.50	3.78
Total Debt/Equity Ratio		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Long Term Debt/Equity Ratio		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Short Term Debt/Equity Ratio		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Efficiency Ratios												
Asset Turnover		1.02	1.02	1.02	1.07	1.16	1.19	0.98	1.00	1.11	1.13	1.14
Cash % of Revenue		52.7%	50.0%	22.2%	18.7%	15.9%	26.1%	33.6%	33.6%	21.4%	21.4%	20.9%
Receivables % of Revenue		16.8%	18.8%	19.9%	21.0%	20.4%	20.6%	21.6%	22.1%	21.5%	20.8%	22.3%
SG&A % of Revenue		22.9%	22.6%	23.4%	24.1%	23.1%	23.2%	22.0%	21.2%	21.7%	21.2%	20.2%
R&D % of Revenue		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Liquidity Ratios												
Days Sales Outstanding		61.3	68.8	72.8	76.5	74.6	75.1	79.0	80.6	78.6	76.0	81.2
Days Inventory Outstanding		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Days Payable Outstanding		17.2	12.8	12.5	12.9	10.9	9.3	10.8	10.4	7.4	9.3	7.3
Cash Conversion Cycle		44.0	56.0	60.3	63.6	63.6	65.8	68.2	70.2	71.2	66.7	74.0
Receivables Turnover		5.96	6.81	6.17	5.99	5.81	5.54	5.09	5.33	5.25	5.16	4.84
Inventory Turnover		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Age of Inventory (Days)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intangibles % of Book Value		7.6%	4.8%	4.8%	4.4%	13.2%	10.3%	10.1%	8.6%	9.8%	8.2%	7.1%
Inventory % of Revenue		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Capital Structure Ratios												
LT-Debt as % of Invested Capital		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ST-Debt as % of Invested Capital		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LT-Debt as % of Total Debt		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ST-Debt as % of Total Debt		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Debt % of Total Assets		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Working Capital % of Price		6.2%	5.9%	6.7%	6.8%	9.6%	18.0%	11.8%	11.1%	14.0%	14.9%	16.4%
Quality Scores												
Piotroski F Score		6.00	6.00	6.00	5.00	5.00	7.00	4.00	6.00	5.00	8.00	8.00
Altman Z Score (Original)		27.00	32.12	32.15	30.76	18.51	12.10	15.39	17.08	11.30	11.73	10.31
Altman Z Score (Revised)		48.67	57.62	57.67	55.21	33.21	21.82	28.09	31.32	20.89	21.69	20.56
Beneish M Score (5 Variable)		-	-2.53	-2.25	-2.59	-1.58	-2.44	-2.84	-2.79	-2.61	-2.83	-2.73
Beneish M Score (8 Variable)		-	-2.20	-1.73	-2.09	-1.35	-1.98	-2.59	-2.27	-2.16	-2.42	-2.29

Cognizant Technology Solutions Corporation

(ctsh)

9/5/2013

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CLEAR

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 reading:

<http://tinyurl.com/6p394ap>

<http://tinyurl.com/7ucpoe2>

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM/MRQ
Balance Sheet Accrual Ratio	-	66.9%	105.5%	43.8%	33.1%	8.7%	23.1%	27.3%	25.5%	21.7%	10.4%
Cash Flow Accrual Ratio	-	34.4%	62.3%	38.1%	29.3%	4.8%	18.5%	23.1%	36.7%	15.1%	11.8%
Sloan Accrual Ratio	4.2%	7.2%	24.3%	19.0%	15.4%	2.4%	7.7%	9.1%	15.6%	6.9%	5.8%
Earnings	\$ 0.21	\$ 0.35	\$ 0.57	\$ 0.77	\$ 1.15	\$ 1.44	\$ 1.78	\$ 2.37	\$ 2.85	\$ 3.44	\$ 3.74
Stock Price	\$ 12.8	\$ 20.3	\$ 25.7	\$ 38.6	\$ 31.0	\$ 20.1	\$ 46.9	\$ 75.1	\$ 66.4	\$ 75.2	\$ 75.8
Total Assets	\$ 360.6	\$ 572.7	\$ 869.9	\$ 1,326.0	\$ 1,838.3	\$ 2,374.6	\$ 3,338.2	\$ 4,583.1	\$ 5,507.9	\$ 6,521.6	\$ 7,012.3
Cash & Equivalent	\$ 194.2	\$ 293.4	\$ 196.9	\$ 265.9	\$ 339.8	\$ 735.1	\$ 1,100.9	\$ 1,541.0	\$ 1,310.9	\$ 1,570.1	\$ 1,678.2
Total Liabilities	\$ 86.5	\$ 119.2	\$ 155.7	\$ 252.5	\$ 370.1	\$ 409.0	\$ 685.1	\$ 998.6	\$ 1,555.0	\$ 1,667.2	\$ 1,688.6
Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Long Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Operating Assets (NOA)	\$ 79.8	\$ 160.1	\$ 517.2	\$ 807.6	\$ 1,128.4	\$ 1,230.5	\$ 1,552.2	\$ 2,043.5	\$ 2,642.0	\$ 3,284.3	\$ 3,645.5
Net Income	\$ 57.4	\$ 100.2	\$ 166.3	\$ 232.8	\$ 350.1	\$ 430.8	\$ 535.0	\$ 733.5	\$ 883.6	\$ 1,051.3	\$ 1,140.3
CFO	\$ 79.9	\$ 127.3	\$ 159.8	\$ 252.9	\$ 344.3	\$ 429.7	\$ 672.3	\$ 764.7	\$ 875.2	\$ 1,172.6	\$ 1,185.7
CFI	\$ (37.8)	\$ (68.4)	\$ (204.5)	\$ (272.3)	\$ (277.3)	\$ (55.0)	\$ (394.8)	\$ (446.9)	\$ (850.3)	\$ (570.0)	\$ (453.0)
Balance Sheet Aggregate Accrual	\$ -	\$ 80.2	\$ 357.1	\$ 290.4	\$ 320.8	\$ 102.1	\$ 321.7	\$ 491.2	\$ 598.5	\$ 642.3	\$ 361.2
Cash Flow Aggregate Accrual	\$ -	\$ 41.3	\$ 211.1	\$ 252.3	\$ 283.2	\$ 56.1	\$ 257.4	\$ 415.8	\$ 858.7	\$ 448.7	\$ 407.6

Piotroski Score

A discrete score between 0-9 which reflects nine criteria used to determine the strength of a firm's financial position. The Piotroski score is used to determine the best value stocks, nine being the best. The score was named after Chicago Accounting Professor, Joseph Piotroski who devised the scale according to specific criteria found in the financial statements. For every criteria (below) that is met the company is given one point, if it is not met, then no points are awarded. The points are then added up to determine the best value stocks.

Profitability

- * Positive return on assets in the current year **(1 point)**
- * Positive operating cash flow in the current year **(1 point)**
- * Higher return on assets (ROA) in the current period compared to the ROA in the previous year **(1 point)**
- * Cash flow from operations are greater than ROA **(1 point)**

Leverage, Liquidity and Source of Funds

- * Lower ratio of long term debt to in the current period compared value in the previous year **(1 point)**
- * Higher current ratio this year compared to the previous year **(1 point)**
- * No new shares were issued in the last year **(1 point)**

Operating Efficiency

- * A higher gross margin compared to the previous year **(1 point)**
- * A higher asset turnover ratio compared to the previous year **(1 point)**

Piotroski F Scores	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM
	6	6	6	5	5	7	4	6	5	8	8
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	0	0	1	1	1
Piotroski 4: Quality of Earnings	1	1	0	1	0	0	1	1	0	1	1
Piotroski 5: LT Debt vs Assets	1	1	1	1	1	1	1	1	1	1	1
Piotroski 6: Current Ratio	1	0	1	0	0	1	0	1	0	1	1
Piotroski 7: Shares Outstanding	0	0	0	0	0	1	0	0	0	1	1
Piotroski 8: Gross Margin	0	0	1	0	0	1	0	0	0	0	0
Piotroski 9: Asset Turnover	0	1	0	1	1	1	0	1	1	1	1

Altman Z Score

The Z-score formula may be used to predict the probability that a firm will go into bankruptcy within two years.

Z-scores are used to predict corporate defaults and an easy-to-calculate control measure for the financial distress status of companies in academic studies. The Z-score uses multiple corporate income and balance sheet values to measure the financial health of a company.

The main problem with the Altman Z formula is that the formula is not suited for many industries. Industries that operate with high leverage, such as radio and utilities will show a higher risk of bankruptcy.

Also, industries with negative working capital, such as many retail and restaurant companies will also exhibit the same high level of bankruptcy.

(Wikipedia http://en.wikipedia.org/wiki/Z-Score_Financial_Analysis_Tool)

$$Z = 1.2 \cdot X_1 + 1.4 \cdot X_2 + 3.3 \cdot X_3 + 0.6 \cdot X_4 + 1.0 \cdot X_5$$

There is also a revised Altman Z score which is adjusted for non manufacturing corporations. The revised formula is:

$$Z = 6.56 \cdot X_1 + 3.26 \cdot X_2 + 6.72 \cdot X_3 + 1.05 \cdot X_4$$

X1 = Working Capital/Total Assets
X2 = Retained Earnings/Total Assets
X3 = EBITDA/Total Assets
X4 = Market Value of Equity/Total Liabilities
X5 = Net Sales/Total Assets

	2003	2004	2005	2006	Annual		2008	2009	2010	2011	2012	MRQ	MRQ Edit
					2007							Q2	
Working Capital	\$ 215.9	\$ 338.9	\$ 507.7	\$ 790.9	\$ 901.5	\$ 1,080.5	\$ 1,661.0	\$ 2,587.5	\$ 2,875.8	\$ 3,437.0	\$ 3,776.7		
Total Assets	\$ 360.6	\$ 572.7	\$ 869.9	\$ 1,326.0	\$ 1,838.3	\$ 2,374.6	\$ 3,338.2	\$ 4,583.1	\$ 5,507.9	\$ 6,521.6	\$ 7,012.3		
Total Liabilities	\$ 86.5	\$ 119.2	\$ 155.7	\$ 252.5	\$ 370.1	\$ 409.0	\$ 685.1	\$ 998.6	\$ 1,555.0	\$ 1,667.2	\$ 1,688.6		
Retained Earnings	\$ 151.0	\$ 251.2	\$ 417.5	\$ 650.3	\$ 999.6	\$ 1,430.4	\$ 1,965.4	\$ 2,698.9	\$ 3,582.5	\$ 4,633.8	\$ 5,218.4		
EBITDA	\$ 72.2	\$ 122.1	\$ 185.3	\$ 277.8	\$ 414.4	\$ 515.2	\$ 637.0	\$ 878.6	\$ 1,169.1	\$ 1,387.6	\$ 420.4		
Market Value of Equity	\$ 3,463.3	\$ 5,776.4	\$ 7,541.6	\$ 11,611.3	\$ 9,411.4	\$ 6,002.7	\$ 14,110.2	\$ 23,213.1	\$ 20,610.4	\$ 22,994.6	\$ 22,836.4		
Net Sales	\$ 368.2	\$ 586.7	\$ 885.8	\$ 1,424.3	\$ 2,135.6	\$ 2,816.3	\$ 3,278.7	\$ 4,592.4	\$ 6,121.2	\$ 7,346.5	\$ 2,161.2		
Normal Altman Z Score	27.00	32.12	32.15	30.76	18.51	12.10	15.39	17.08	11.30	11.73	10.31		
Revised Altman Z Score	48.67	57.62	57.67	55.21	33.21	21.82	28.09	31.32	20.89	21.69	20.56		

	Altman Z Score		Revised Altman Z Score	
	Annual	MRQ	Annual	MRQ
X1	0.53	0.54		
X2	0.71	0.74		
X3	0.21	0.06		
X4	13.79	13.52		
X5	1.13	0.31		
	11.73	10.31	21.69	20.56

Original Altman Z Score
When Z is 3.0 or more, the firm is most likely safe based on the financial data. However, be careful to double check as fraud, economic downturns and other factors could cause unexpected reversals.
When Z is 2.7 to 3.0, the company is probably safe from bankruptcy, but this is in the grey area and caution should be taken.
When Z is 1.8 to 2.7, the company is likely to be bankrupt within 2 years. This is the lower portion of the grey area and a dramatic turnaround of the company is needed.
When Z is below 1.8, the company is highly likely to be bankrupt. If a company is generating lower than 1.8, serious studies must be performed to ensure the company can survive.

Revised Altman Z Score
When Z is 2.6 or more, the firm is most likely safe based on the financial data. However, be careful to double check as fraud, economic downturns and other factors could cause unexpected reversals.
When Z is 1.1 to 2.6, the company is probably safe from bankruptcy, but this is in the grey area and caution should be taken.
When Z is below 1.1, the company is highly likely to be bankrupt. If a company is generating lower than 1.8, serious studies must be performed to ensure the company can survive.

The Beneish Model - M Score Variables

DSRI = Days' Sales in Receivables Index. Measured as the ratio of days' sales in receivables in year t to year t-1. A large increase in DSR could be indicative of revenue inflation.
GMI = Gross Margin Index. Measured as the ratio of gross margin in year t-1 to gross margin in year t. Gross margin has deteriorated when this index is above 1. A firm with poorer prospects is more likely to manipulate earnings.
AQI = Asset Quality Index. Asset quality is measured as the ratio of non-current assets other than plant, property and equipment to total assets. AQI is the ratio of asset quality in year t to year t-1.
SGI = Sales Growth Index. Ratio of sales in year t to sales in year t-1. Sales growth is not itself a measure of manipulation. However, growth companies are likely to find themselves under pressure to manipulate in order to keep up appearances.
DEPI = Depreciation Index. Measured as the ratio of the rate of depreciation in year t-1 to the corresponding rate in year t. DEPI greater than 1 indicates that assets are being depreciated at a slower rate. This suggests that the firm might be revising useful asset life assumptions upwards, or adopting a new method that is income friendly.
SGAI = Sales, General and Administrative expenses Index. The ratio of SGA expenses in year t relative to year t-1.
LVGI = Leverage Index. The ratio of total debt to total assets in year t relative to year t-1. An LVGI >1 indicates an increase in leverage
TATA - Total Accruals to Total Assets. Total accruals calculated as the change in working capital accounts other than cash less depreciation.

The Beneish M Score Formula
The eight variables are then weighted together according to the following:

M = -4.84 + 0.92*DSRI + 0.528*GMI + 0.404*AQI + 0.892*SGI + 0.115*DEPI - 0.172*SGAI + 4.679*TATA - 0.327*LVGI

A score greater than -2.22 indicates a strong likelihood of a firm being a manipulator. In his out of sample tests, Beneish found that he could correctly identify 76% of manipulators, whilst only incorrectly identifying 17.5% of non-manipulators.

The 5 Variable Version of the Beneish Model
The five variable version excludes SGAI, DEPI and LEVI which were not significant in the original Beneish model.

M = -6.065 + 0.823*DSRI + 0.906*GMI + 0.593*AQI + 0.717*SGI + 0.107*DEPI

A score greater than -2.22 indicates a strong likelihood of a firm being a manipulator.

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM
M Score - 5 Variable	-	-2.53	-2.25	-2.59	-1.58	-2.44	-2.84	-2.79	-2.61	-2.83	-2.73
M Score - 8 Variable	-	-2.20	-1.73	-2.09	-1.35	-1.98	-2.59	-2.27	-2.16	-2.42	-2.29
DSRI	-	1.12	1.06	1.05	0.98	1.01	1.05	1.02	0.98	0.97	1.07
GMI	-	1.01	0.99	1.03	1.03	0.99	1.01	1.03	1.00	1.01	1.02
AQI	-	0.75	1.40	0.72	2.65	1.45	0.87	0.66	1.12	0.94	1.09
SGI	-	1.59	1.51	1.61	1.50	1.32	1.16	1.40	1.33	1.20	1.09
DEPI	-	1.10	1.21	0.95	1.02	0.93	0.90	0.97	1.15	1.01	0.97
SGAI	-	0.99	1.03	1.03	0.96	1.00	0.95	0.96	1.03	0.98	0.95
TATA	-	-0.05	0.01	-0.02	0.00	0.00	-0.04	-0.01	0.00	-0.02	-0.01
LVGI	-	1.16	0.89	1.05	0.98	0.88	1.19	1.05	1.08	0.96	0.92

[illegible]

Cognizant Technology Solutions Corporation
(ctsh)

9/5/2013

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	ctsh	exls							
Company	Cognizant Technology	Exlservice Holdings, Inc.							
Sector	Technology	Services							
Industry	Business Software &	Business Services							
Country	USA	USA							
Earnings Date	6-Aug-2013	30-Jul-2013							
Price	\$75.81	\$27.91							
Market Cap	\$22,836.42	\$912.24							
Change	0.15%	0.29%							
Volume	877,648	18,441							
Change from Open	0.38%	0.40%							
Gap	-0.24%	-0.11%							
50-Day High	-0.63%	-9.65%							
50-Day Low	23.35%	6.20%							
52-Week High	-6.50%	-15.35%							
52-Week Low	24.44%	8.47%							
P/E	20.19	21.57							
Forward P/E	16.16	14.21							
PEG	1.09	1.35							
P/S	2.85	1.97							
P/B	4.29	2.58							
P/Cash	7.87	7.59							
P/Free Cash Flow	26.32	16.35							
Dividend Yield	0.00%	0.00%							
Payout Ratio	0.00%	0.00%							
EPS (ttm)	\$3.75	\$1.29							
EPS growth this year	20.70%	14.50%							
EPS growth next year	17.72%	12.72%							
EPS growth past 5 years	24.50%	16.00%							
EPS growth next 5 years	18.55%	16.00%							
Sales growth past 5 years	28.00%	23.80%							
EPS growth quarter over quarter	20.70%	0.00%							
Sales growth quarter over quarter	20.40%	7.40%							
Return on Assets	17.30%	9.90%							
Return on Equity	22.80%	12.30%							
Return on Investment	21.10%	12.10%							
Current Ratio	3.80	3.30							
Quick Ratio	3.80	3.30							
LT Debt/Equity	0.00	0.01							
Total Debt/Equity	0.00	0.01							
Gross Margin	41.50%	38.10%							
Operating Margin	19.40%	12.30%							
Profit Margin	14.20%	9.30%							
Shares Outstanding	301.67	32.78							
Shares Float	299.50	31.02							
Insider Ownership	0.20%	3.10%							
Insider Transactions	8.84%	-16.31%							
Institutional Ownership	93.40%	89.20%							
Institutional Transactions	-2.48%	-2.51%							
Float Short	1.52%	1.39%							
Short Ratio	1.7	2.7							
Performance (Week)	4.86%	4.12%							
Performance (Month)	3.12%	-2.01%							
Performance (Quarter)	18.50%	-7.30%							
Performance (Half Year)	-6.20%	-13.81%							
Performance (Year)	18.60%	7.66%							
Beta	1.12	1.03							
Average True Range	1.43	0.57							
Volatility (Week)	2.06%	1.32%							
Volatility (Month)	1.92%	1.64%							
20-Day Simple Moving Average	3.92%	2.31%							
50-Day Simple Moving Average	6.87%	-2.60%							
200-Day Simple Moving Average	6.13%	-5.42%							
Relative Strength Index (14)	67.10	52.53							
Analyst Recom	1.80	1.80							
Average Volume	2,640.27	159.70							
Relative Volume	1.01	0.35							

Shares Out.	M.O.S	Growth	Discount %	Terminal %	Select FCF	Adjust 2012 FCF
301.67	50%	21.2%	9.0%	2%	FCF	

%old school value

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Current Price	Fair Value	Buy Under	Actual M.O.S	52 Wk High	52 Wk Low
\$75.81	\$ 105.73	\$52.86	28%	\$81.08	\$60.92

Fiscal Year	Trend	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM
Cash Flow Data												
Cash from Operations		\$79.9	\$127.3	\$159.8	\$252.9	\$344.3	\$429.7	\$672.3	\$764.7	\$875.2	\$1,172.6	\$1,185.7
Capex		(\$30.0)	(\$46.6)	(\$71.8)	(\$104.7)	(\$182.5)	(\$169.4)	(\$76.6)	(\$185.5)	(\$288.2)	(\$334.5)	(\$318.2)
Cash Flow		\$100.2	\$161.8	\$262.2	\$362.0	\$567.7	\$698.8	\$733.9	\$1,053.2	\$1,259.3	\$1,516.5	\$1,608.3
Free Cash Flow		\$49.9	\$80.8	\$88.0	\$148.1	\$161.9	\$260.3	\$595.7	\$579.1	\$586.9	\$838.1	\$867.5
YOY% Change			61.9%	9.0%	68.4%	9.3%	60.8%	128.9%	-2.8%	1.3%	42.8%	3.5%

Margins												
Gross Margin		45.8%	45.5%	45.8%	44.7%	43.5%	44.2%	43.6%	42.2%	42.2%	41.8%	41.0%
Operating Margin		18.9%	20.0%	20.1%	18.2%	17.9%	18.3%	18.9%	18.8%	18.6%	18.5%	18.8%
Net Margin		15.6%	17.1%	18.8%	16.3%	16.4%	15.3%	16.3%	16.0%	14.4%	14.3%	14.2%

EPS & Tax												
Diluted EPS		\$0.21	\$0.35	\$0.57	\$0.77	\$1.15	\$1.44	\$1.78	\$2.37	\$2.85	\$3.44	\$3.74
Tax Rate		20.6%	17.9%	10.3%	16.2%	15.5%	16.4%	16.0%	16.5%	24.4%	24.2%	25.4%

Efficiency & Profitability												
CROIC		48.1%	56.5%	30.3%	34.6%	19.6%	21.3%	46.1%	40.6%	31.5%	36.8%	31.5%
FCF/Sales		13.5%	13.8%	9.9%	10.4%	7.6%	9.2%	18.2%	12.6%	9.6%	11.4%	10.8%
Inventory Turnover												
Return On Assets (ROA)		15.9%	17.5%	19.1%	17.6%	19.0%	18.1%	16.0%	16.0%	16.0%	16.1%	16.3%
Return On Equity (ROE)		20.9%	22.1%	23.3%	21.7%	23.8%	21.9%	20.2%	20.5%	22.4%	21.7%	21.4%

Debt Related												
Debt to Equity		31.6%	26.3%	21.8%	23.5%	25.2%	20.8%	25.8%	27.9%	39.3%	34.3%	31.7%
Capitalization Ratio		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FCF to Total Debt												
FCF to Short Term Debt												
FCF to Long Term Debt												

5 Year Multi-Year Performance

	2007-2011	2008-2012	2007-2010	2008-2011	2009-2012	2007-2009	2008-2010	2009-2011	2010-2012	Median
Tang Shareholder Equity	28.3%	25.6%	35.0%	26.2%	22.7%	34.6%	35.1%	22.3%	16.7%	26.2%
Free Cash Flow	38.0%	34.0%	53.0%	31.1%	12.1%	91.8%	49.2%	-0.7%	20.3%	34.0%
CROIC	31.5%	36.8%	30.9%	36.0%	38.7%	21.3%	40.6%	40.6%	36.8%	36.8%
FCF/Sales	9.6%	11.4%	10.9%	11.1%	12.0%	9.2%	12.6%	12.6%	11.4%	11.4%
ROA	16.0%	16.0%	17.1%	16.0%	16.0%	18.1%	16.0%	16.0%	16.0%	16.0%
ROE	21.9%	21.7%	21.2%	21.2%	21.1%	21.9%	20.5%	20.5%	21.7%	21.2%
Gross Margin	43.5%	42.2%	43.6%	42.9%	42.2%	43.6%	43.6%	42.2%	42.2%	42.9%
Operating Margin	18.6%	18.6%	18.6%	18.7%	18.7%	18.3%	18.8%	18.8%	18.6%	18.6%
Net Margin	16.0%	15.3%	16.1%	15.6%	15.2%	16.3%	16.0%	16.0%	14.4%	16.0%
Revenue Growth	30.1%	27.1%	29.1%	29.5%	30.9%	23.9%	27.7%	36.6%	26.5%	29.1%
Earnings Growth	25.3%	24.3%	27.2%	25.5%	24.1%	24.6%	28.3%	26.6%	20.4%	25.3%
Cash from Ops Growth	26.3%	28.5%	30.5%	26.8%	20.4%	39.7%	33.4%	14.1%	23.8%	26.8%

10 Year Multi-Year Performance

	2003-2010	2004-2011	2005-2012	2003-2008	2004-2009	2005-2010	2006-2011	2007-2012	2003-2012	Median
Tang Shareholder Equity	45.5%	36.7%	32.1%	49.9%	43.0%	38.8%	29.6%	27.4%	38.6%	38.6%
Free Cash Flow	41.9%	32.8%	38.0%	39.2%	49.1%	45.8%	31.7%	38.9%	36.8%	38.9%
CROIC	37.6%	33.0%	33.0%	32.5%	32.5%	32.5%	33.0%	34.1%	36.8%	33.0%
FCF/Sales	11.5%	10.2%	10.2%	10.2%	10.2%	10.2%	10.0%	10.5%	10.9%	10.2%
ROA	17.5%	17.5%	16.8%	17.9%	17.9%	17.9%	16.8%	16.1%	16.8%	17.5%
ROE	21.8%	22.0%	21.8%	22.0%	22.0%	21.8%	21.8%	21.8%	21.8%	21.8%
Gross Margin	44.4%	43.9%	43.6%	45.1%	44.4%	43.9%	43.6%	42.9%	43.9%	43.9%
Operating Margin	18.8%	18.7%	18.5%	18.6%	18.6%	18.6%	18.5%	18.5%	18.7%	18.6%
Net Margin	16.3%	16.3%	16.1%	16.4%	16.4%	16.3%	16.1%	15.6%	16.1%	16.3%
Revenue Growth	43.4%	39.8%	35.3%	50.2%	41.1%	39.0%	33.9%	28.0%	39.5%	39.5%
Earnings Growth	41.3%	34.8%	29.4%	46.8%	38.3%	33.2%	29.8%	24.4%	36.3%	34.8%
Cash from Ops Growth	38.1%	31.7%	32.9%	40.0%	39.5%	36.8%	28.2%	27.8%	34.8%	34.8%

Projection of future Free Cash Flow

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Yearly Growth Input Field										
21%	\$1,015.73	\$1,230.99	\$1,491.86	\$1,776.40	\$2,115.21	\$2,518.64	\$2,999.02	\$3,513.81	\$4,116.98	\$4,823.68
Terminal Growth										
2%	\$ 4,920.16	\$ 5,018.56	\$ 5,118.93	\$ 5,221.31	\$ 5,325.74	\$ 5,432.25	\$ 5,540.90	\$ 5,651.71	\$ 5,764.75	\$ 5,880.04

Calculation

Total Cash	\$ 2,900.57
MAX(0,Current Liabilities-Current A	\$ -
Excess Cash	\$ 2,900.57
Adding some Intangibles	\$ -
Interest Bearing Debt	\$0.00
Present Value	\$ 31,894.99
Shares Outstanding	301.67
Per Share Value	\$ 105.73
Desired Margin of Safety	50%
Purchase Price	\$ 52.86
Current Price	\$ 75.81
Margin of Safety	28%

Sensitivity Matrix: Growth vs Discount Rate

		Discount Rates				
		7%	8%	9%	10%	11%
Growth Rates	17%	\$ 100.60	\$ 92.08	\$ 84.62	\$ 78.05	\$ 72.25
	19%	\$ 112.98	\$ 103.15	\$ 94.53	\$ 86.95	\$ 80.27
	21%	\$ 127.01	\$ 115.66	\$ 105.73	\$ 97.00	\$ 89.31
	23%	\$ 142.87	\$ 129.81	\$ 118.38	\$ 108.34	\$ 99.51
	25%	\$ 160.80	\$ 145.78	\$ 132.65	\$ 121.13	\$ 110.99

Sensitivity Matrix: Margin of Safety %

		Discount Rates				
		7%	8%	9%	10%	11%
Growth Rates	17%	24.6%	17.7%	10.4%	2.9%	-4.9%
	19%	32.9%	26.5%	19.8%	12.8%	5.6%
	21%	40.3%	34.5%	28.3%	21.8%	15.1%
	23%	46.9%	41.6%	36.0%	30.0%	23.8%
	25%	52.9%	48.0%	42.8%	37.4%	31.7%

Variable Fields

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

Cognizant Technology S (ctsh)

9/5/2013

Enter Ticker	Refresh	CLEAR	Current Price	Intrinsic \$	Buy Under	Actual M.O.S	52 Wk High	52 Wk Low
			\$75.81	\$115.32	\$39.21	34%	\$81.08	\$60.92

5 Yr EPS Growth	2007-2011	2008-2012	2007-2010	2008-2011	2009-2012	2007-2009	2008-2010	2009-2011	2010-2012	Median
	25.3%	24.3%	27.2%	25.5%	24.6%	24.1%	28.3%	26.6%	20.4%	25.3%

10 Yr EPS Growth	2003-2010	2004-2011	2005-2012	2003-2008	2004-2009	2005-2010	2006-2011	2007-2012	Median
	41.3%	34.8%	29.4%	46.8%	38.3%	33.2%	29.8%	24.4%	34.8%

Diltued EPS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TTM
	\$ 0.21	\$ 0.35	\$ 0.57	\$ 0.77	\$ 1.15	\$ 1.44	\$ 1.78	\$ 2.37	\$ 2.85	\$ 3.44	\$ 3.74
Forecast Method	2013E	2014E									
Linear Regression Method	\$ 3.45	\$ 4.15									
Analyst Estimate	\$ 3.98	\$ 4.68									

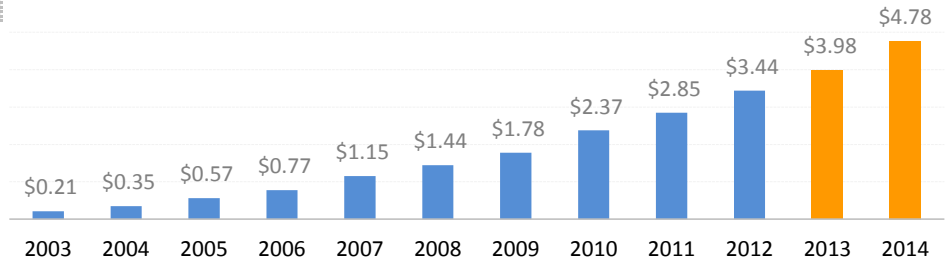
Graham Value Calculation

Normal Earnings	\$ 3.98
Growth Rate	20.00%
Corp Bond Rate	4.10
Per Share Value	\$ 115.32
MOS	66%
Purchase Price	\$ 39.21
Current Price	\$75.81
Actual Discount	34%

Graham's Sensitivity Matrix

Growth Sensivity Incremen	10%
EPS Sensivity Increments	10%

Shares Out.	M.O.S	Growth	Projection	EPS	Corp Bond
301.67	66%	20.0%	Analyst Estimate	\$3.98	4.10
		20.0%			



		EPS				
	\$ 3.18	\$ 3.58	\$ 3.98	\$ 4.38	\$ 4.78	
16.0%	\$ 78.59	\$ 88.41	\$ 98.24	\$ 108.06	\$ 117.89	
18.0%	\$ 85.42	\$ 96.10	\$ 106.78	\$ 117.46	\$ 128.14	
20.0%	\$ 92.26	\$ 103.79	\$ 115.32	\$ 126.86	\$ 138.39	
22.0%	\$ 99.09	\$ 111.48	\$ 123.87	\$ 136.25	\$ 148.64	
26.4%	\$ 114.13	\$ 128.39	\$ 142.66	\$ 156.92	\$ 171.19	

Cognizant Technology Solutions (ctsh)

9/5/2013

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Current EPS Exp Growth	Dividend Yield	Business Safety	Financial Safety	Earnings Safety
21%	0.00%	Excellent	Excellent	Above Average
Expected PE		18 of 20 pts	20 of 20 pts	11 of 20 pts

Katsenelson Absolute PE	Current Price	Fair Value	Fair Value PE	Current PE	FV Exp Grth	M.O.S
	\$75.81	\$90.68	24.23	20.19	25%	16%

Determine Business Risk	2008	2009	2010	2011	2012	TTM	AVERAGE	STDEV
ROE	21.92%	20.16%	20.46%	22.35%	21.66%	21.42%	21.3%	0.9%
Consistency/quality check		1	1	1	1	1	5	
ROA	18.14%	16.03%	16.01%	16.04%	16.12%	16.26%	16.4%	0.8%
Consistency/quality check		0	0	1	1	1	3	
CROIC	21.26%	46.10%	40.61%	31.45%	36.75%	31.50%	34.6%	8.6%
Consistency/quality check		1	1	1	1	1	5	
Intangibles % of Book Value	10.27%	10.11%	8.62%	9.77%	8.17%	7.06%	9.0%	1.3%
Consistency/quality check		1	1	1	1	1	5	

Business Risk Factor:	18 pts out of 20	Excellent 8% Factor	18	0.0%
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Determine Financial Risk	2008	2009	2010	2011	2012	TTM	AVERAGE	STDEV
Current Ratio	3.79	3.57	3.78	3.38	3.50	3.78	3.63	0.18
Consistency/quality check		1	1	1	1	1	5	
Total Debt/Equity Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consistency/quality check		1	1	1	1	1	5	
Short Term Debt/Equity Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consistency/quality check		1	1	1	1	1	5	
FCF to Total Debt							#DIV/0!	#DIV/0!
Consistency/quality check		1	1	1	1	1	5	

Financial Risk Factor:	20 pts out of 20	Excellent 10% Factor	20	0.0%
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Determine Earnings Predictability	2008	2009	2010	2011	2012	TTM	AVERAGE	STDEV
Gross Margin	44.15%	43.59%	42.20%	42.19%	41.76%	40.98%	42.5%	1.2%
Consistency/quality check		0	0	0	0	0	0	
Net Margin	15.30%	16.32%	15.97%	14.44%	14.31%	14.21%	15.1%	0.9%
Consistency/quality check		1	0	0	0	0	1	
Earnings	\$1.44	\$1.78	\$2.37	\$2.85	\$3.44	\$3.74	2.60	0.91
Consistency/quality check		1	1	1	1	1	5	
Cash from Ops	\$429.71	\$672.33	\$764.65	\$875.15	\$1,172.58	\$1,185.75	\$850.03	294.25
Consistency/quality check		1	1	1	1	1	5	

Earnings Predict. Factor:	11 pts out of 20	Above Average 1% Factor	11	0.0%
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Katsenelson Absolute PE Valuation Model

Earnings Growth	21.00%	20.19
Dividend Yield	0.00%	0.00
	=	
Adjusted Base PE		20.19
	x	
Business Risk	Excellent [1 + (1 - 0.92)]	
Premium/Discount Factor:	0.92	
	x	
Financial Risk	Excellent [1 + (1 - 0.9)]	
Premium/Discount Factor:	0.90	
	x	
Earnings Predictability	Above Average [1 + (1 - 0.99)]	
Premium/Discount Factor:	0.99	
	=	
Adjusted Fair Value PE	25%	24.23

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%

Δ0.65

Δ0.50

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

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(ctsh)

9/5/2013

Figures in Millions except per share values

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CLEAR

Shares Out.	Main. Capex	Normalized Income	Discount Rate	R&D Years	SG&A %
301.67	\$99.05	\$1,080.46	9%	3	25%

Current Price	EPV	Net Reproduction Value	EPV MOS	NCAV	52 Wk High	52 Wk Low
\$75.81	\$45.50	\$13.74	0.0%	\$11.42	\$81.08	\$60.92

Asset Valuation Section

Data: Asset Valuation

Shares Outstanding	301.7
Balance Sheet Assets	\$ 6,846.4
Adjusted Assets	\$ 6,846.4
Total Liabilities	\$ 1,688.6
Total Equity	\$ 5,323.7
Average SGA %	21.8%
Marketing/Brand Value	\$ 1,604.9
R&D Value	\$ -
Cash Needed for Business	\$ 80.2
Interest Bearing Debt	\$ -
Non Interest Bearing Debt	\$ 1,553.9
Excess Cash	\$ 2,753.6

Calculation: Asset Valuation

	Total	Per Share
Tangible BV	\$ 4,623.17	\$ 15.33
Adjusted BV	\$ 5,157.81	\$ 17.10
NCAV	\$ 3,445.39	\$ 11.42
Reprod. Cost of Assets	\$ 8,451.28	\$ 28.01
Reprod. Cost of Assets BV	\$ 6,762.71	\$ 22.42
Total Net Reprod. Cost	\$ 4,143.75	\$ 13.74

Quarterly numbers based on:

Adjustments:

Assets

	Book Value	Fixed BV	Multiplier	Reproduction Asset Value
Cash & Equivalents	\$ 1,678.2			\$ 1,678.2
Marketable Securities	\$ 1,222.4			\$ 1,222.4
Accounts Receivable	\$ 1,560.9			\$ 1,560.9
Other Receivable	\$ 224.4			\$ 224.4
Net Receivables	\$ 1,785.2			\$ 1,785.2
<i>Inventories: Raw Materials</i>	\$ -			
<i>Inventories: Work in Progress</i>	\$ -			
<i>Inventories: Purchased Components</i>	\$ -			
<i>Inventories: Finished Goods</i>	\$ -			
<i>Inventories: Other</i>	\$ -			
Inventories -- Total	\$ -			\$ -
Prepaid Expenses	\$ -			\$ -
Current Deferred Income Taxes	\$ 228.1			\$ 228.1
Other Current Assets	\$ 220.0			\$ 220.0
Total Current Assets	\$ 5,134.0			\$ 5,134.0
Goodwill, Net	\$ 412.6			\$ 412.6
Intangibles, Net	\$ 122.0			\$ 122.0
Intangibles	\$ 534.6			\$ 534.6
Property/Plant/Equipment - Net	\$ 1,017.7			\$ 1,017.7
Other Long Term Assets, Total	\$ 160.1			\$ 160.1
Total Assets	\$ 6,846.4			\$ 6,846.4

EPV Valuation Section

Values for Normalized Income

TTM Free Cash Flow	\$ 867.5
Avg Normalized Income	\$ 1,047.0
Med Normalized Income	\$ 1,054.5
Avg Adj. Income 5 yrs	\$ 956.4
TTM Adjusted Income	\$ 1,476.9

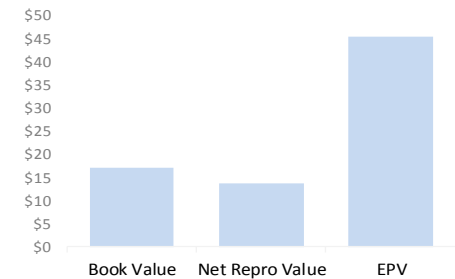
EPV > Net Repro Value = Moat exists

EPV = Net Repro Value = No Moat

EPV < Net Repro Value = Value Destroyer

Data: EPV

Cost of Capital	9.0%
Normalized Adjusted Income	\$ 1,080.5
Average Maintenance Capex	\$ 99.0
Interest Bearing Debt	\$ -
1% of sales	\$ 80.2
Cash & Equiv	\$ 2,900.6
Cash - Debt	\$ 2,820.4
Shares	301.67



Calculation: EPV

Cost of Capital Rates	EPV	Per Share	+ Cash - Debt	Per Share
5%	\$ 19,628.3	\$ 65.07	\$ 22,448.7	\$ 74.41
7%	\$ 14,020.2	\$ 46.48	\$ 16,840.6	\$ 55.82
9%	\$ 10,904.6	\$ 36.15	\$ 13,725.0	\$ 45.50
11%	\$ 8,922.0	\$ 29.58	\$ 11,742.3	\$ 38.92
13%	\$ 7,549.4	\$ 25.03	\$ 10,369.7	\$ 34.37

Adjustments:

Liabilities & Equity

	Book Value	Fixed BV	Multiplier	Reproduction Liability Value
Accounts Payable	\$ 94.1			\$ 94.1
Accrued Expenses	\$ -			\$ -
Accrued Liabilities	\$ 811.1			\$ 811.1
Notes Payable/Short Term Debt	\$ -			\$ -
Current Port. of LT Debt/Capital	\$ -			\$ -
Leases	\$ -			\$ -
Other Current Liabilities	\$ 317.4			\$ 317.4
Total Current Liabilities	\$ 1,222.6			\$ 1,222.6
Long-Term Debt	\$ -			\$ -
Capital Lease Obligations	\$ -			\$ -
Deferred Income Taxes	\$ 14.5			\$ 14.5
Total Other Liabilities	\$ 316.7			\$ 316.7
Total Liabilities	\$ 1,688.6			\$ 1,688.6
Common Stock Equity	\$ 5,323.7			\$ 5,323.7
Retained Earnings	\$ 5,218.4			\$ 5,218.4
Total Capitalization	\$ 5,323.7			\$ 5,323.7
Total Equity	\$ 5,323.7			\$ 5,323.7
Total Liabilities & Equity	\$ 7,012.3			\$ 7,012.3

Cognizant Technology Solutions Corporation

(ctsh)

9/5/2013

Current Price	NNWC	NNWC %	NCAV	NCAV %
\$75.81	\$8.46	0.0%	\$11.42	0.0%

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Figures in Millions except per share values

	BV	CLEAR	BV Multiplier	Net Net Value
Cash & Equivalents	\$ 1,678.21		100%	\$ 2,900.57
Marketable Securities	\$ 1,222.36			
Accounts Receivable	\$ 1,785.23		75%	
Other Receivable	\$ -			
Receivables	\$ 1,785.23			\$ 1,338.92
Inventories: Raw Materials	\$ -		50%	
Inventories: Work in Progress	\$ -			
Inventories: Purchased Components	\$ -			
Inventories: Finished Goods	\$ -			
Inventories: Other	\$ -			
Inventories -- Total	\$ -			\$ -
Current Assets - Total	\$ 5,133.96			\$ 5,133.96
Total Assets	\$ 7,012.32			\$ 7,012.32
Total Liabilities	\$ 1,688.57			\$ 1,688.57
Shares Outstanding	301.67			301.67

	Total (\$m)	Per Share
Total Current Assets	\$ 5,133.96	\$ 17.02
Market Cap & Share Price	22.865B	\$ 75.81
Book Value	\$ 5,323.75	\$ 17.65
Net Net Working Capital	\$ 2,550.92	\$ 8.46
Discount to NNWC		0%
Net Current Asset Value	\$ 3,445.39	\$ 11.42
Discount to NCAV		0%

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