



Valuation Multiples by Industry

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SIC Sector: **(7000-8999) Services**

Report Date: **30 August 2019**

Country: **United States of America (U.S.A.)**

Industry Valuation Multiples

The table below provides a summary of median industry enterprise value (EV) valuation multiples, as at the Report Date. The data is grouped by industry SIC code:

	Max #	EV Multiple				
		Rev	EBITDA	EBIT	TotAss	TanAss
Hotels & Motels (7011)	27	2.85	11.02	20.02	1.05	1.21
Services-Personal Services (7200)	13	1.88	13.68	16.37	1.09	1.88
Services-Advertising (7310)	10	1.35	11.59	20.09	0.97	2.31
Services-Advertising Agencies (7311)	8	0.46	9.57	10.37	0.75	1.27
Services-Consumer Credit Reporting, Collection Agencies (7320)	5	7.78	21.51	24.09	2.73	11.50
Services-Equipment Rental & Leasing, Nec (7359)	16	2.96	7.93	14.57	0.83	0.91
Services-Employment Agencies (7361)	5	0.70	7.92	-	0.73	0.80
Services-Help Supply Services (7363)	20	0.64	9.10	10.32	0.83	1.65
Services-Computer Programming, Data Processing, Etc. (7370)	41	3.13	14.23	24.88	1.71	2.89
Services-Computer Programming Services (7371)	29	1.63	13.33	19.25	1.25	1.60
Services-Prepackaged Software (7372)	132	5.27	30.10	38.69	2.91	4.85
Services-Computer Integrated Systems Design (7373)	27	2.07	15.16	27.42	1.29	3.17
Services-Computer Processing & Data Preparation (7374)	55	2.74	14.08	22.13	1.36	3.33
Services-Miscellaneous Business Services (7380)	7	1.18	10.12	19.64	0.87	1.98
Services-Business Services, Nec (7389)	85	2.20	15.14	20.07	1.42	2.34
Services-Auto Rental & Leasing (No Drivers) (7510)	6	2.20	6.21	17.82	0.83	0.87
Services-Amusement & Recreation Services (7900)	7	1.44	12.64	21.46	1.12	1.49
Services-Miscellaneous Amusement & Recreation (7990)	8	3.27	10.64	15.90	1.81	1.94
Services-General Medical & Surgical Hospitals, Nec (8062)	8	0.99	9.01	13.57	0.79	1.21
Services-Medical Laboratories (8071)	19	2.86	12.07	18.09	1.54	3.61
Services-Home Health Care Services (8082)	5	2.01	24.44	28.41	2.41	7.38
Services-Misc Health & Allied Services, Nec (8090)	9	1.56	7.21	9.28	0.92	1.95
Services-Specialty Outpatient Facilities, Nec (8093)	5	1.72	-	-	1.64	1.92
Services-Educational Services (8200)	24	1.79	11.41	15.39	0.98	1.34
Services-Engineering Services (8711)	9	0.92	12.89	19.05	0.80	1.33
Services-Commercial Physical & Biological Research (8731)	18	5.04	18.97	25.47	1.91	3.88
Services-Management Services (8741)	7	2.38	20.68	24.84	1.82	3.95
Services-Management Consulting Services (8742)	15	1.74	13.92	20.29	1.51	3.04

EV/Revenue Valuation Multiple

We provide additional data relating to industry EV/Revenue valuation multiples:

	#	Average	Median	Std. Dev.	Std. Err.
Hotels & Motels (7011)	25	2.73	2.85	0.66	0.13
Services-Personal Services (7200)	12	2.10	1.88	1.18	0.34
Services-Advertising (7310)	9	1.55	1.35	1.33	0.44
Services-Advertising Agencies (7311)	7	0.73	0.46	0.45	0.17
Services-Consumer Credit Reporting, Collection Agencies (7320)	5	7.77	7.78	2.58	1.16
Services-Equipment Rental & Leasing, Nec (7359)	16	3.69	2.96	3.00	0.75
Services-Employment Agencies (7361)	5	0.71	0.70	0.32	0.14
Services-Help Supply Services (7363)	20	0.65	0.64	0.46	0.10
Services-Computer Programming, Data Processing, Etc. (7370)	38	4.60	3.13	4.37	0.71
Services-Computer Programming Services (7371)	29	4.20	1.63	5.86	1.09
Services-Prepackaged Software (7372)	122	6.12	5.27	4.28	0.39
Services-Computer Integrated Systems Design (7373)	27	2.58	2.07	1.88	0.36
Services-Computer Processing & Data Preparation (7374)	50	4.02	2.74	3.72	0.53
Services-Miscellaneous Business Services (7380)	6	1.42	1.18	0.83	0.34
Services-Business Services, Nec (7389)	78	3.06	2.20	2.86	0.32
Services-Auto Rental & Leasing (No Drivers) (7510)	6	2.10	2.20	0.91	0.37
Services-Amusement & Recreation Services (7900)	6	2.29	1.44	1.63	0.67
Services-Miscellaneous Amusement & Recreation (7990)	8	3.88	3.27	2.06	0.73
Services-General Medical & Surgical Hospitals, Nec (8062)	8	0.98	0.99	0.55	0.19
Services-Medical Laboratories (8071)	17	5.61	2.86	5.25	1.27
Services-Misc Health & Allied Services, Nec (8090)	6	1.62	1.56	0.54	0.22
Services-Educational Services (8200)	24	3.29	1.79	3.68	0.75
Services-Engineering Services (8711)	9	0.86	0.92	0.40	0.13
Services-Commercial Physical & Biological Research (8731)	14	6.82	5.04	5.45	1.46
Services-Management Services (8741)	7	2.91	2.38	1.78	0.67
Services-Management Consulting Services (8742)	13	1.64	1.74	0.77	0.21

EV/EBITDA Valuation Multiple

We provide additional data relating to industry EV/EBITDA valuation multiples:

	#	Average	Median	Std. Dev.	Std. Err.
Hotels & Motels (7011)	26	11.68	11.02	3.27	0.64
Services-Personal Services (7200)	8	22.82	13.68	17.85	6.31
Services-Advertising (7310)	6	13.66	11.59	6.65	2.71
Services-Advertising Agencies (7311)	6	9.73	9.57	4.90	2.00
Services-Equipment Rental & Leasing, Nec (7359)	14	6.69	7.93	3.15	0.84
Services-Help Supply Services (7363)	16	9.48	9.10	4.40	1.10
Services-Computer Programming, Data Processing, Etc. (7370)	23	15.15	14.23	11.18	2.33
Services-Computer Programming Services (7371)	17	15.64	13.33	9.51	2.31
Services-Prepackaged Software (7372)	77	37.52	30.10	30.71	3.50
Services-Computer Integrated Systems Design (7373)	18	14.50	15.16	5.49	1.29
Services-Computer Processing & Data Preparation (7374)	27	16.14	14.08	11.64	2.24
Services-Business Services, Nec (7389)	65	17.76	15.14	12.17	1.51
Services-Miscellaneous Amusement & Recreation (7990)	6	10.95	10.64	2.60	1.06
Services-General Medical & Surgical Hospitals, Nec (8062)	6	9.19	9.01	3.78	1.54
Services-Medical Laboratories (8071)	6	10.52	12.07	5.85	2.39
Services-Home Health Care Services (8082)	5	26.15	24.44	4.08	1.82
Services-Educational Services (8200)	23	14.24	11.41	14.20	2.96
Services-Engineering Services (8711)	6	14.88	12.89	6.42	2.62
Services-Commercial Physical & Biological Research (8731)	10	20.79	18.97	12.03	3.81
Services-Management Services (8741)	6	19.88	20.68	10.55	4.31
Services-Management Consulting Services (8742)	12	12.76	13.92	5.32	1.54

EV/EBIT Valuation Multiple

We provide additional data relating to industry EV/EBIT valuation multiples:

	#	Average	Median	Std. Dev.	Std. Err.
Hotels & Motels (7011)	27	19.97	20.02	5.97	1.15
Services-Personal Services (7200)	6	21.71	16.37	18.87	7.70
Services-Advertising Agencies (7311)	5	9.01	10.37	3.04	1.36
Services-Equipment Rental & Leasing, Nec (7359)	12	14.34	14.57	2.71	0.78
Services-Help Supply Services (7363)	15	11.84	10.32	5.69	1.47
Services-Computer Programming, Data Processing, Etc. (7370)	22	33.12	24.88	30.13	6.42
Services-Computer Programming Services (7371)	16	20.87	19.25	10.55	2.64
Services-Prepackaged Software (7372)	63	50.81	38.69	43.53	5.48
Services-Computer Integrated Systems Design (7373)	15	23.07	27.42	9.30	2.40
Services-Computer Processing & Data Preparation (7374)	25	24.47	22.13	19.23	3.85
Services-Business Services, Nec (7389)	59	24.12	20.07	16.32	2.13
Services-Auto Rental & Leasing (No Drivers) (7510)	5	24.12	17.82	10.13	4.53
Services-Amusement & Recreation Services (7900)	5	34.13	21.46	27.30	12.21
Services-Miscellaneous Amusement & Recreation (7990)	5	16.97	15.90	3.18	1.42
Services-General Medical & Surgical Hospitals, Nec (8062)	6	14.85	13.57	6.69	2.73
Services-Medical Laboratories (8071)	7	29.43	18.09	21.28	8.04
Services-Misc Health & Allied Services, Nec (8090)	5	10.37	9.28	2.82	1.26
Services-Educational Services (8200)	20	18.08	15.39	19.04	4.26
Services-Engineering Services (8711)	6	27.18	19.05	18.62	7.60
Services-Commercial Physical & Biological Research (8731)	9	30.40	25.47	17.41	5.80
Services-Management Services (8741)	5	27.20	24.84	19.35	8.65
Services-Management Consulting Services (8742)	12	20.37	20.29	9.99	2.88

EV/Total Assets Valuation Multiple

We provide additional data relating to industry EV/Total Assets valuation multiples:

	#	Average	Median	Std. Dev.	Std. Err.
Hotels & Motels (7011)	27	1.18	1.05	0.45	0.09
Services-Personal Services (7200)	13	1.44	1.09	0.95	0.26
Services-Advertising (7310)	10	1.08	0.97	0.67	0.21
Services-Advertising Agencies (7311)	6	0.69	0.75	0.16	0.06
Services-Consumer Credit Reporting, Collection Agencies (7320)	5	3.54	2.73	2.13	0.95
Services-Equipment Rental & Leasing, Nec (7359)	16	0.92	0.83	0.32	0.08
Services-Help Supply Services (7363)	20	1.25	0.83	0.97	0.22
Services-Computer Programming, Data Processing, Etc. (7370)	41	3.05	1.71	3.16	0.49
Services-Computer Programming Services (7371)	27	2.20	1.25	2.84	0.55
Services-Prepackaged Software (7372)	131	3.33	2.91	2.41	0.21
Services-Computer Integrated Systems Design (7373)	27	1.53	1.29	1.11	0.21
Services-Computer Processing & Data Preparation (7374)	51	1.84	1.36	1.57	0.22
Services-Miscellaneous Business Services (7380)	7	2.08	0.87	1.93	0.73
Services-Business Services, Nec (7389)	85	2.06	1.42	1.73	0.19
Services-Auto Rental & Leasing (No Drivers) (7510)	5	0.84	0.83	0.11	0.05
Services-Amusement & Recreation Services (7900)	7	1.38	1.12	0.72	0.27
Services-Miscellaneous Amusement & Recreation (7990)	8	1.69	1.81	0.66	0.23
Services-General Medical & Surgical Hospitals, Nec (8062)	8	0.82	0.79	0.53	0.19
Services-Medical Laboratories (8071)	19	3.10	1.54	2.73	0.63
Services-Misc Health & Allied Services, Nec (8090)	8	1.17	0.92	0.97	0.34
Services-Specialty Outpatient Facilities, Nec (8093)	5	1.47	1.64	0.60	0.27
Services-Educational Services (8200)	23	1.37	0.98	1.19	0.25
Services-Engineering Services (8711)	8	0.91	0.80	0.26	0.09
Services-Commercial Physical & Biological Research (8731)	17	2.51	1.91	1.49	0.36
Services-Management Services (8741)	5	1.81	1.82	0.27	0.12
Services-Management Consulting Services (8742)	14	1.43	1.51	0.79	0.21

EV/Tangible Assets Valuation Multiple

We provide additional data relating to industry EV/Tangible Assets valuation multiples:

	#	Average	Median	Std. Dev.	Std. Err.
Hotels & Motels (7011)	24	1.25	1.21	0.38	0.08
Services-Personal Services (7200)	12	2.26	1.88	1.48	0.43
Services-Advertising (7310)	10	2.34	2.31	1.49	0.47
Services-Advertising Agencies (7311)	8	1.27	1.27	0.72	0.25
Services-Equipment Rental & Leasing, Nec (7359)	16	1.12	0.91	0.49	0.12
Services-Help Supply Services (7363)	20	1.98	1.65	1.44	0.32
Services-Computer Programming, Data Processing, Etc. (7370)	41	4.47	2.89	4.61	0.72
Services-Computer Programming Services (7371)	27	2.97	1.60	3.06	0.59
Services-Prepackaged Software (7372)	132	5.21	4.85	3.62	0.32
Services-Computer Integrated Systems Design (7373)	27	3.16	3.17	1.71	0.33
Services-Computer Processing & Data Preparation (7374)	55	4.20	3.33	3.82	0.52
Services-Miscellaneous Business Services (7380)	7	3.17	1.98	2.29	0.87
Services-Business Services, Nec (7389)	83	3.43	2.34	3.04	0.33
Services-Auto Rental & Leasing (No Drivers) (7510)	5	1.09	0.87	0.51	0.23
Services-Amusement & Recreation Services (7900)	7	1.94	1.49	1.16	0.44
Services-Miscellaneous Amusement & Recreation (7990)	7	2.39	1.94	1.22	0.46
Services-General Medical & Surgical Hospitals, Nec (8062)	8	1.29	1.21	0.71	0.25
Services-Medical Laboratories (8071)	19	3.85	3.61	3.35	0.77
Services-Home Health Care Services (8082)	5	7.94	7.38	3.67	1.64
Services-Misc Health & Allied Services, Nec (8090)	9	3.93	1.95	4.67	1.56
Services-Educational Services (8200)	24	2.23	1.34	2.13	0.43
Services-Engineering Services (8711)	8	1.45	1.33	0.61	0.22
Services-Commercial Physical & Biological Research (8731)	18	4.36	3.88	2.70	0.64
Services-Management Services (8741)	6	3.71	3.95	1.37	0.56
Services-Management Consulting Services (8742)	15	3.00	3.04	1.99	0.51

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OVERVIEW OF VALUATION MULTIPLES BY INDUSTRY

Our Valuation Multiples by Industry reports are based on valuation multiples data and financial information sourced by eVal, as at the time and date of producing this report. In determining our calculations, we have excluded negative multiples, outliers and NA data. For more information and data about the peer group companies that comprise this sector, and to review the underlying supporting data to this valuation multiples report, please visit <https://eval.tech/free-valuation-multiples> to review and download the industry or company valuation multiples data.

This Document relates to valuation multiples data for SIC industries which comprise a minimum of five entities. If there is a specific industry that has been excluded from this analysis that you would like to include, please contact us at admin@eval.tech.

Our sector reports include the following enterprise value valuation multiples: EV/Revenue, EV/EBITDA, EV/EBIT, EV/Total Assets, and EV/Tangible Assets. If you require additional information, or data relating to particular valuation multiples omitted from this Document, please go to <https://eval.tech/free-valuation-multiples>.

Background to Valuation Multiples

The multiples method in corporate and business valuation is categorised as a market-based valuation approach. Establishing an indicative estimation of firm value using the multiples method involves applying a synthetic market valuation multiple (e.g. EV/Revenue or EV/EBITDA), to an associated value driver of the firm being valued (e.g. the target firm's Revenue or EBITDA). As a consequence of the role of financial structuring in private equity, the IPEV Guidelines recommends the use of Enterprise Value multiples in the determination of Fair Value: “... multiples should be used to derive an Enterprise Value for the Underlying Business.”

The EV/Revenue multiple (the “Revenue Multiple”) is generally useful for valuing firms with negative earnings. The multiple is less susceptible to accounting distortions and is not readily or easily available for manipulation by firm management. The traditional Revenue Multiple approach in valuation is typically useful for valuing cyclical businesses and firms operating in mature industries.

The EV/EBITDA multiple (the “EBITDA Multiple”) is one of the most widely used valuation multiples, and probably the most commonly used enterprise value multiple. The EBITDA Multiple is frequently employed as an alternative to the Price/Earnings ratio (the “P/E” ratio), because EBITDA is regularly applied as an indicator of company financial performance and is generally viewed as an alternative to recorded earnings. EBITDA strips out the effects of a company's cost of debt, tax, depreciation and amortisation; consequently, EBITDA is useful for evaluating firms with different capital structures, tax rates and depreciation policies.

The EV/EBIT multiple (the “EBIT Multiple”) is similar to the EBITDA Multiple, although it includes the non-cash accounting effects of firm depreciation and amortisation. EBIT commonly assesses the earnings generated by a company from normal operations and is often used as a proxy for firm operating profit. EBIT represents a company's capacity to generate earnings from normal operations, by excluding the effects of taxation, interest expense, and capital structure.

The EV/Total Assets multiple (the “Total Asset Multiple”) is commonly utilised for industries which are asset-intensive; although, like the Revenue Multiple, the Total Asset Multiple is also useful for valuing firms with negative earnings. Using the Total Asset Multiple is particularly advantageous where a business is predominantly asset-driven, and where return-on-assets (ROA) is largely consistent, as this allows base assets to serve as a proxy and appropriate indicator of future cash flows.

The EV/Tangible Assets multiple (the “Tangible Asset Multiple”) is similar to the Total Asset Multiple; however, the Tangible Asset Multiple excludes recorded goodwill and other intangible assets from the denominator in its calculation. Tangible assets include customary fixed assets such as machinery, land and buildings; and also current assets, such as firm inventory. Utilising the Tangible Asset Multiple instead of the Total Asset Multiple can help remedy some of the drawbacks associated with the Total Asset Multiple, namely, the inclusion of goodwill and other identifiable intangible assets on the balance sheet.

DATA OVERVIEW

SIC Industries (SIC Code):

Hotels, Rooming Houses, Camps & Other Lodging Places (7000), Hotels & Motels (7011), Services-Personal Services (7200), Services-Advertising (7310), Services-Advertising Agencies (7311), Services-Consumer Credit Reporting, Collection Agencies (7320), Services-Mailing, Reproduction, Commercial Art & Photography (7330), Services-Direct Mail Advertising Services (7331), Services-To Dwellings & Other Buildings (7340), Services-Miscellaneous Equipment Rental & Leasing (7350), Services-Equipment Rental & Leasing, Nec (7359), Services-Employment Agencies (7361), Services-Help Supply Services (7363), Services-Computer Programming, Data Processing, Etc. (7370), Services-Computer Programming Services (7371), Services-Prepackaged Software (7372), Services-Computer Integrated Systems Design (7373), Services-Computer Processing & Data Preparation (7374), Services-Miscellaneous Business Services (7380), Services-Detective, Guard & Armored Car Services (7381), Services-Photofinishing Laboratories (7384), Services-Telephone Interconnect Systems (7385), Services-Business Services, Nec (7389), Services-Automotive Repair, Services & Parking (7500), Services-Auto Rental & Leasing (No Drivers) (7510), Services-Miscellaneous Repair Services (7600), Services-Motion Picture & Video Tape Production (7812), Services-Allied To Motion Picture Production (7819), Services-Motion Picture & Video Tape Distribution (7822), Services-Allied To Motion Picture Distribution (7829), Services-Motion Picture Theaters (7830), Services-Video Tape Rental (7841), Services-Amusement & Recreation Services (7900), Services-Racing, Including Track Operation (7948), Services-Miscellaneous Amusement & Recreation (7990), Services-Membership Sports & Recreation Clubs (7997), Services-Health Services (8000), Services-Offices & Clinics Of Doctors Of Medicine (8011), Services-Nursing & Personal Care Facilities (8050), Services-Skilled Nursing Care Facilities (8051), Services-Hospitals (8060), Services-General Medical & Surgical Hospitals, Nec (8062), Services-Medical Laboratories (8071), Services-Home Health Care Services (8082), Services-Misc Health & Allied Services, Nec (8090), Services-Specialty Outpatient Facilities, Nec (8093), Services-Legal Services (8111), Services-Educational Services (8200), Services-Child Day Care Services (8351), Services-Engineering, Accounting, Research, Management (8700), Services-Engineering Services (8711), Services-Commercial Physical & Biological Research (8731), Services-Testing Laboratories (8734), Services-Management Services (8741), Services-Management Consulting Services (8742), Services-Facilities Support Management Services (8744)

Companies (Ticker):

AAC Holdings Inc (AAC), Aaron'S Inc (AAN), Abm Industries Inc (ABM), Acadia Healthcare Company Inc (ACHC), Aci Worldwide Inc (ACIW), Aecom (ACM), Accenture plc (ACN), Aerocentury Corp (ACY), Adobe Inc (ADBE), Automatic Data Processing Inc (ADP), Alliance Data Systems Corp (ADS), Autodesk Inc (ADSK), ADT Inc (ADT), Addus HomeCare Corp (ADUS), AerCap Holdings NV (AER), Audioeye Inc (AEYE), Afya Ltd (AFYA), Agm Group Holdings Inc (AGMH), Agilysys Inc (AGYS), Ashford Inc (AINC), Akamai Technologies Inc (AKAM), Air Lease Corp (AL), Alj Regional Holdings Inc (ALJJ), Allegion plc (ALLE), Alarmcom Holdings Inc (ALRM), Altair Engineering Inc (ALTR), Alithya Group Inc (ALYA), Ambow Education Holding Ltd (AMBO), Amc Entertainment Holdings Inc (AMC), Amedisys Inc (AMED), Apollo Medical Holdings Inc (AMEH), Amn Healthcare Services Inc (AMN), American Shared Hospital Services (AMS), American Software Inc (AMSWA), ANGI Homeservices Inc (ANGI), Ansys Inc (ANSS), Airnet Technology Inc (ANTE), Sphere 3D Corp (ANY), Applied Dna Sciences Inc (APDN), American Public Education Inc (APEI), Appfolio Inc (APPF), Appian Corp (APPN), American Renal Associates Holdings Inc (ARA), Arc Document Solutions Inc (ARC), Arco Platform Ltd (ARCE), American Resources Corp (AREC), Artelo Biosciences Inc (ARTL), ASGN Inc (ASGN), Altisource Portfolio Solutions SA (ASPS), Aspen Group Inc (ASPU), Asure Software Inc (ASUR), ATA Inc (ATAI), Adtalem Global Education Inc (ATGE), Autohome Inc (ATHM), ATIF Holdings Ltd (ATIF), Activision Blizzard Inc (ATVI), AutoWeb Inc (AUTO), Avalon GloboCare Corp (AVCO), Avid Technology Inc (AVID), Avalara Inc (AVLR), Anavex Life Sciences Corp (AVXL), Aware Inc (AWRE), Aircastle LTD (AYR), Alteryx Inc (AYX), Aspen Technology Inc (AZPN), Alibaba Group Holding Ltd (BABA), Booz Allen Hamilton Holding Corp (BAH), Bandwidth Inc (BAND), Bioanalytical Systems Inc (BAS), Barrett Business Services Inc (BBSI), Blucora Inc (BCOR), Brightcove Inc (BCOV), Biotelemetry Inc (BEAT), Bright Scholar Education Holdings Ltd (BEDU), Bright Horizons Family Solutions Inc (BFAM), BG Staffing Inc (BGSF), Biohitech Global Inc (BHTG), Sothebys (BID), Baidu Inc (BIDU), Bilibili Inc (BILI), Biocept Inc (BIOC), Option Care Health Inc (BIOS), Bitauto Holdings Ltd (BITA), Brookdale Senior Living Inc (BKD), Black Knight Inc (BKI), Booking Holdings Inc (BKNG), Blackline Inc (BL), Bridgeline Digital Inc (BLIN), Blackbaud Inc (BLKB), Blink Charging Co (BLNK), BenefitfocusInc (BNFT), Box Inc (BOX), Broadridge Financial Solutions Inc (BR), Bsquare Corp (BSQR), Broadvision Inc (BVSN), Bowl America Inc (BWL.A), Boyd Gaming Corp (BYD), Caci International Inc (CACI), CAI International Inc (CAI), Cango Inc (CANG), Avis Budget Group Inc (CAR), Carbonite Inc (CARB), CarGurus Inc (CARG), Carscom Inc (CARS), Cass Information Systems Inc (CASS), Cardtronics plc (CATM), Catasys Inc (CATS), Cleveland Biolabs Inc (CBLI), Carbon Black Inc (CBLK), CBIZ Inc (CBZ), Concord Medical Services Holdings Ltd (CCM), Command Center Inc (CCNI), Clear Channel Outdoor Holdings Inc (CCO), China Customer Relations Centers Inc (CCRC), Cross Country Healthcare Inc (CCRN), Ceridian HCM Holding Inc (CDAY), CDK Global Inc (CDK), Cardlytics Inc (CDLX), CareDx Inc (CDNA), Cadence Design Systems Inc (CDNS), Career Education Corp (CECO), Celcuity Inc (CELC), CERNER Corp (CERN), Cancer Genetics Inc (CGIX), CHURCHILL DOWNS Inc (CHDN), Chemed Corp (CHE), Chegg Inc (CHGG), Choice Hotels International Inc (CHH), Check Point Software Technologies Ltd (CHKP), Change Healthcare Inc (CHNG), Cinedigm Corp (CIDM), China Internet Nationwide Financial Services Inc (CIFS), China Index Holdings Ltd (CIH), Cision Ltd (CISN), Caladrius Biosciences Inc (CLBS), Collectors Universe Inc (CLCT), Cloudera Inc (CLDR), Corelogic Inc (CLGX), CLPS Inc (CLPS), Town Sports International Holdings Inc (CLUB), Cheetah Mobile Inc (CMCM), CONDUENT Inc (CNDT), ChinaNet Online Holdings Inc (CNET), Cinemark Holdings Inc (CNK), China Techfaith Wireless Communication Technology LTD (CNTF), Century Casinos Inc (CNTY), China Online Education Group (COE), Coupa Software Inc (COUP), Counterpath Corp (CPAH), Canterbury Park Holding Corp (CPHC), Computer Programs & Systems Inc (CPSI), Cra International Inc (CRAI),

Carecom Inc (CRCM), China Recycling Energy Corp (CREG), Creative Realities Inc (CREX), Charles River Laboratories International Inc (CRL), Salesforcecom Inc (CRM), Criteo SA (CRTO), CrowdStrike Holdings Inc (CRWD), Costar Group Inc (CSGP), Csg Systems International Inc (CSGS), Castlight Health Inc (CSLT), Cornerstone OnDemand Inc (CSOD), Csp Inc (CSPI), Chicken Soup for the Soul Entertainment Inc (CSSE), Castle Biosciences Inc (CSTL), Capital Senior Living Corp (CSU), Carriage Services Inc (CSV), Cynergistek Inc (CTEK), Computer Task Group Inc (CTG), CooTek(Cayman)Inc (CTK), Ctrip Com International Ltd (CTRP), Cognizant Technology Solutions Corp (CTSH), Citrix Systems Inc (CTXS), Civeo Corp (CVEO), Commvault Systems Inc (CVLT), CyberArk Software Ltd (CYBR), Community Health Systems Inc (CYH), Changyoucom Ltd (CYOU), CYREN Ltd (CYRN), CAESARS ENTERTAINMENT Corp (CZR), Endava plc (DAVA), Dropbox Inc (DBX), 3D Systems Corp (DDD), Donnelley Financial Solutions Inc (DFIN), Quest Diagnostics Inc (DGX), Dhi Group Inc (DHX), DHX Media Ltd (DHXM), China Distance Education Holdings LTD (DL), DLH Holdings Corp (DLHC), Dolphin Entertainment Inc (DLPN), Digimarc CORP (DMRC), Docusign Inc (DOCU), Domo Inc (DOMO), Amdocs Ltd (DOX), DouYu International Holdings Ltd (DOYU), Descartes Systems Group Inc (DSGX), Dynatrace Inc (DT), Datasea Inc (DTSS), Davita Inc (DVA), Dover Motorsports Inc (DVD), DXC Technology Co (DXC), Electronic Arts Inc (EA), Eventbrite Inc (EB), Ebay Inc (EBAY), Ebix Inc (EBIX), Channeladvisor Corp (ECOM), New Oriental Education & Technology Group Inc (EDU), Ecology & Environment Inc (EEI), Emerald Expositions Events Inc (EEX), Equifax Inc (EFX), EGAIN Corp (EGAN), Nic Inc (EGOV), Encompass Health Corp (EHC), Endurance International Group Holdings Inc (EIGI), Eloxx Pharmaceuticals Inc (ELOX), Emmaus Life Sciences Inc (EMMA), Englobal Corp (ENG), Ensign Group Inc (ENSG), Envestnet Inc (ENV), Enzo Biochem Inc (ENZ), EPAM Systems Inc (EPAM), Bottomline Technologies Inc (EPAY), Eldorado Resorts Inc (ERI), Eros International PLC (EROS), Elastic NV (ESTC), Etsy Inc (ETSY), Everbridge Inc (EVBG), EverQuote Inc (EVER), Evolent Health Inc (EVH), Evi Industries Inc (EVI), Evolving Systems Inc (EVOL), EVO Payments Inc (EVOP), EVERTEC Inc (EVTC), Exact Sciences Corp (EXAS), Exelixis Inc (EXEL), ExlService Holdings Inc (EXLS), EXP World Holdings Inc (EXPI), Exponent Inc (EXPO), Exterran Corp (EXTN), Facebook Inc (FB), Franklin Covey Co (FC), Fti Consulting Inc (FCN), Factset Research Systems Inc (FDS), Four Seasons Education (Cayman) Inc (FEDU), Fair Isaac Corp (FICO), Fidelity National Information Services Inc (FIS), Fiserv Inc (FISV), Five9 Inc (FIVN), Fulgent Genetics Inc (FLGT), Full House Resorts Inc (FLL), Fluent Inc (FLNT), Fleetcor Technologies Inc (FLT), Fly Leasing Ltd (FLY), Fresenius Medical Care AG & Co KGaA (FMS), Forrester Research Inc (FORR), Formula Systems (1985) Ltd (FORTY), FlexShopper Inc (FPAY), Foresight Autonomous Holdings Ltd (FRSX), Fastly Inc (FSLY), Fortress Transportation & Infrastructure Investors LLC (FTAI), Farfetch Ltd (FTCH), frontdoor inc (FTDR), Cedar Fair L P (FUN), Five Star Senior Living Inc (FVE), Fiverr International Ltd (FVRR), Genpact LTD (G), Gaia Inc (GAIA), GoDaddy Inc (GDDY), Golden Entertainment Inc (GDEN), GDS Holdings Ltd (GDS), Great Elm Capital Group Inc (GEC), Great Elm Capital Corp (GECC), Genesis Healthcare Inc (GEN), General Finance CORP (GFN), Guardant Health Inc (GH), Graham Holdings Co (GHC), Genomic Health Inc (GHDX), GreenTree Hospitality Group Ltd (GHG), Cgi Inc (GIB), GIGAMEDIA Ltd (GIGM), Globant SA (GLOB), Glu Mobile Inc (GLUU), Genius Brands International Inc (GNUS), Alphabet Inc (GOOGL), Global Payments Inc (GPN), Gp Strategies Corp (GPX), Greenpro Capital Corp (GRNQ), Groupon Inc (GRPN), GrubHub Inc (GRUB), GRAVITY Co Ltd (GRVY), Globalscape Inc (GSB), GreenSky Inc (GSKY), Gridsum Holding Inc (GSUM), GSX Techedu Inc (GSX), Gse Systems Inc (GVP), Guidewire Software Inc (GWRE), Hyatt Hotels Corp (H), HCA Healthcare Inc (HCA), Health Catalyst Inc (HCAT), Hackett Group Inc (HCKT), Healthcare Services Group Inc (HCSG), H&E Equipment Services Inc (HEES), Hilton Grand Vacations Inc (HGV), HeadHunter Group PLC (HHR), Harte Hanks Inc (HHS), Hill International Inc (HIL), Hailiang Education Group Inc (HLG), Hilton Worldwide Holdings Inc (HLT), Nobilis Health Corp (HLTH), Hms Holdings Corp (HMSY), Hanger Inc (HNGR), Healthequity Inc (HQY), H&R Block Inc (HRB), Herc Holdings Inc (HRI), Heidrick & Struggles International Inc (HSII), Hudson Global Inc (HSON), Healthstream Inc (HSTM), Huazhu Group Ltd (HTHT), Hertz Global Holdings Inc (HTZ), Hubspot Inc (HUBS), Huron Consulting Group Inc (HURN), HUYA Inc (HUYA), HyreCar Inc (HYRE), ICF International Inc (ICFI), iClick Interactive Asia Group Ltd (ICLK), Icon Plc (ICLR), Intellicheck Inc (IDN), International Game Technology PLC (IGT), Intercontinental Hotels Group Plc (IHG), Information Services Group Inc (III), i3 Verticals Inc (IIIV), IMAC Holdings Inc (IMAC), International Money Express Inc (IMXI), Internap Corp (INAP), Incyte Corp (INCY), IHS Markit Ltd (INFO), Infosys Ltd (INFY), Innodata Inc (INOD), Inovalon Holdings Inc (INOV), Impixon (INPX), Inspired Entertainment Inc (INSE), Instructure Inc (INST), Intuit Inc (INTU), Inuvo Inc (INUV), InterXion Holding NV (INXN), Professional Diversity Network Inc (IPDN), Interpublic Group Of Companies Inc (IPG), iQIYI Inc (IQ), Iqvia Holdings Inc (IQV), International Speedway Corp (ISCA), Insignia Systems Inc (ISIG), Innovative Solutions & Support Inc (ISSC), Gartner Inc (IT), IZEA Worldwide Inc (IZEA), Johnson Controls International plc (JCI), Aurora Mobile Ltd (JG), Henry Jack & Associates Inc (JKHY), JMU Ltd (JMU), GEE Group Inc (JOB), 51Job Inc (JOBS), Jupai Holdings Ltd (JP), Jianpu Technology Inc (JT), Kelly Services Inc (KELYA), Akerna Corp (KERN), Kforce Inc (KFRC), Korn Ferry (KFY), Kingold Jewelry Inc (KGJI), LAIX Inc (LAIX), Laureate Education Inc (LAUR), LendingClub Corp (LC), Leidos Holdings Inc (LDOS), Leaf Group Ltd (LEAF), Lions Gate Entertainment Corp (LGF.B), Laboratory Corp Of America Holdings (LH), LHC Group Inc (LHCG), Lincoln Educational Services Corp (LINC), Linx SA (LIX), LIVE VENTURES Inc (LIVE), Luoking Technology Corp (LKCO), Limelight Networks Inc (LLNW), LINE Corp (LN), LogMeIn Inc (LOGM), Grand Canyon Education Inc (LOPE), Spark Networks SE (LOV), Liveperson Inc (LPSN), Liquidity Services Inc (LQDT), K12 Inc (LRN), LIGHTBRIDGE Corp (LTBR), Liberty TripAdvisor Holdings Inc (LTRPA), Luna Innovations Inc (LUNA), Livongo Health Inc (LVGO), Las Vegas Sands Corp (LVS), Lyft Inc (LYFT), Live Nation Entertainment Inc (LYV), Mastercard Inc (MA), Mam Software Group Inc (MAMS), ManpowerGroup Inc (MAN), Manhattan Associates Inc (MANH), Mantech International Corp (MANT), Manchester United plc (MANU), Marriott International Inc (MAR), Marchex Inc (MCHX), Moodys Corp (MCO), Monarch Casino & Resort Inc (MCRI), Marcus Corp (MCS), Mednax Inc (MD), MongoDB Inc (MDB), Mdc Partners Inc (MDCA), Medallia Inc (MDLA), Allscripts Healthcare Solutions Inc (MDRX), Medidata Solutions Inc (MDSO), Medpace Holdings Inc (MEDP), Meet Group Inc (MEET), Mercadolibre Inc (MELI), Mistras Group Inc (MG), Miragen Therapeutics Inc (MGEN), Moneygram International Inc (MGI), Magic Software Enterprises Ltd

(MGIC), Magellan Health Inc (MGLN), MGM Resorts International (MGM), Mcgrath Rentcorp (MGRC), Mastech Digital Inc (MHH), Mimecast Ltd (MIME), Mitcham Industries Inc (MIND), MiX Telematics Ltd (MIXT), Majesco (MJCO), Monaker Group Inc (MKGI), Melco Resorts & Entertainment LTD (MLCO), Maximus Inc (MMS), Mind Cti Ltd (MNDO), Monro Inc (MNRO), Mobileiron Inc (MOBL), Model N Inc (MODN), MOGU Inc (MOGU), Momo Inc (MOMO), Moxian Inc (MOXC), Marin Software Inc (MRIN), STUDIO CITY INTERNATIONAL HOLDINGS Ltd (MSC), MSCI Inc (MSCI), Microsoft Corp (MSFT), Madison Square Garden Co (MSG), MICROSTRATEGY Inc (MSTR), MTBC Inc (MTBC), MMTec Inc (MTC), Match Group Inc (MTCH), Materialise Nv (MTLS), Vail Resorts Inc (MTN), National Instruments Corp (NATI), Navigant Consulting Inc (NCI), National CineMedia Inc (NCMI), The9 LTD (NCTY), Neogenomics Inc (NEO), Net Element Inc (NETE), Puxin Ltd (NEW), New Relic Inc (NEWR), Netflix Inc (NFLX), NantHealth Inc (NH), National Healthcare Corp (NHC), Nielsen Holdings plc (NLSN), Nanoviricides Inc (NNVC), ServiceNow Inc (NOW), National Research Corp (NRC), Insuperity Inc (NSP), Netscout Systems Inc (NTCT), NetEase Inc (NTES), Network 1 Technologies Inc (NTIP), Nutanix Inc (NTNX), Natera Inc (NTRA), Neurotrope Inc (NTRP), Netsol Technologies Inc (NTWK), Nuance Communications Inc (NUAN), NV5 Global Inc (NVEE), Invitae Corp (NVTA), Nextgen Healthcare Inc (NXGN), Nxt-ID Inc (NXTD), Okta Inc (OKTA), Omnicon Group Inc (OMC), OneSmart International Education Group Ltd (ONE), Ooma Inc (OOMA), Ogen Inc (OPGN), Opera Ltd (OPRA), OptimizeRx Corp (OPRX), Oracle Corp (ORCL), OneSpan Inc (OSPN), ONESPAWORLD HOLDINGS Ltd (OSW), Open Text Corp (OTEX), PagSeguro Digital Ltd (PAGS), Paycom Software Inc (PAYC), Paysign Inc (PAYS), Paychex Inc (PAYX), Powerbridge Technologies Co Ltd (PBTS), Points International Ltd (PCOM), Paylocity Holding Corp (PCTY), Park City Group Inc (PCYG), PagerDuty Inc (PD), Pinduoduo Inc (PDD), Pdf Solutions Inc (PDFS), Pegasystems Inc (PEGA), Penn National Gaming Inc (PENN), Perion Network Ltd (PERI), Performant Financial Corp (PFMT), Proofpoint Inc (PFPT), Pfsweb Inc (PFSW), Phreesia Inc (PHR), Phunware Inc (PHUN), Premier Inc (PINC), Pinterest Inc (PINS), Pieris Pharmaceuticals Inc (PIRS), ShiftPixy Inc (PIXY), Park Hotels & Resorts Inc (PK), Anaplan Inc (PLAN), Planet Fitness Inc (PLNT), Playa Hotels & Resorts NV (PLYA), Psychemedics Corp (PMD), Pra Group Inc (PRAA), PRA Health Sciences Inc (PRAH), Perficient Inc (PRFT), Progress Software Corp (PRGS), Prgx Global Inc (PRGX), PROS Holdings Inc (PRO), Purple Innovation Inc (PRPL), Perspecta Inc (PRSP), Pluralsight Inc (PS), Parsons Corp (PSN), Personalis Inc (PSNL), Pintec Technology Holdings Ltd (PT), Ptc Inc (PTC), Pivotal Software Inc (PVTL), PayPal Holdings Inc (PYPL), Qad Inc (QADB), Quorum Health Corp (QHC), Qiji (QIWI), Qualys Inc (QLYS), Quinstreet Inc (QNST), Quest Resource Holding Corp (QRHC), Qutoutiao Inc (QTT), Q2 Holdings Inc (QTWO), Qumu Corp (QUMU), Quotient Technology Inc (QUOT), Ryder System Inc (R), LiveRamp Holdings Inc (RAMP), Ritchie Bros Auctioneers Inc (RBA), Ribbon Communications Inc (RBBN), Rent A Center Inc De (RCH), R1 Rcm Inc (RCM), Rcm Technologies Inc (RCMT), Reading International Inc (RDI), RadNet Inc (RDNT), Red Violet Inc (RDVT), Radware Ltd (RDWR), Resources Connection Inc (RECN), RISE Education Cayman Ltd (REDU), Renren Inc (RENN), Regis Corp (RGS), Regional Health Properties Inc (RHE), Robert Half International Inc (RHI), B Riley Financial Inc (RILY), Red Lion Hotels CORP (RLH), RumbleON Inc (RMBL), Rmr Group Inc (RMR), RingCentral Inc (RNG), Realnetworks Inc (RNWK), Rollins Inc (ROL), Realpage Inc (RP), Rapid7 Inc (RPD), Red Rock Resorts Inc (RRR), Rosetta Stone Inc (RST), Rubicon Project Inc (RUBI), RYB Education Inc (RYB), Sabre Corp (SABR), Science Applications International Corp (SAIC), Sailpoint Technologies Holdings Inc (SAIL), Sap Se (SAP), Service Corp International (SCI), Comscore Inc (SCOR), SciPlay Corp (SCPL), SecureWorks Corp (SCWX), Sea Ltd (SE), SeaWorld Entertainment Inc (SEAS), Select Medical Holdings Corp (SEM), Servicemaster Global Holdings Inc (SERV), Safe-T Group Ltd (SFET), Shutterfly Inc (SFLY), Fang Holdings Ltd (SFUN), Scientific Games Corp (SGMS), Spar Group Inc (SGRP), Surgery Partners Inc (SGRY), Sunstone Hotel Investors Inc (SHO), Shopify Inc (SHOP), SharpSpring Inc (SHSP), Sify Technologies Ltd (SIFY), Sina Corp (SINA), Sito Mobile Ltd (SITO), Six Flags Entertainment Corp (SIX), Peak Resorts Inc (SKIS), Super League Gaming Inc (SLGG), Simulations Plus Inc (SLP), Smartsheet Inc (SMAR), Smith Micro Software Inc (SMSI), Snap Inc (SNAP), Synchronoss Technologies Inc (SNCR), Synopsys Inc (SNPS), Sogou Inc (SOGO), Sohucom Ltd (SOHU), SP Plus Corp (SP), S&P Global Inc (SPGI), Splunk Inc (SPLK), Sapiens International Corp N V (SPNS), Supportcom Inc (SPRT), Sps Commerce Inc (SPSC), Square Inc (SQ), SOCIAL REALITY Inc (SRAX), Servicesource International Inc (SREV), Sorrento Therapeutics Inc (SRNE), StarTek Inc (SRT), SS&C Technologies Holdings Inc (SSNC), SilverSun Technologies Inc (SSNT), Shotspotter Inc (SSTI), Shutterstock Inc (SSTK), Sunlink Health Systems Inc (SSY), Staffing 360 Solutions Inc (STAF), Extended Stay America Inc (STAY), Steel Connect Inc (STCN), Sunlands Technology Group (STG), Stampscom Inc (STMP), Stantec Inc (STN), StoneCo Ltd (STNE), Stonemor Partners Lp (STON), Strategic Education Inc (STRA), Streamline Health Solutions Inc (STRM), SVMK Inc (SVMK), Switch Inc (SWCH), SolarWinds Corp (SWI), So-Young International Inc (SY), Sykes Enterprises Inc (SYKE), Symantec Corp (SYMC), SYNAPTICS Inc (SYNA), Synacor Inc (SYNC), Syneos Health Inc (SYNH), TAL Education Group (TAL), Taoping Inc (TAOP), TrueBlue Inc (TBI), TuanChe Ltd (TC), Tucows Inc (TCX), Teladoc Health Inc (TDOC), Atlassian Corp Plc (TEAM), Tarena International Inc (TEDU), Tenable Holdings Inc (TENB), Tenax Therapeutics Inc (TENX), PARETEUM Corp (TEUM), Textainer Group Holdings Ltd (TGH), Tenet Healthcare Corp (THC), Team Inc (TISI), Talend SA (TLND), Telaria Inc (TLRA), Trinet Group Inc (TNET), Tabula Rasa HealthCare Inc (TRHC), TripAdvisor Inc (TRIP), Speedway Motorsports Inc (TRK), Triton International Ltd (TRTN), TransUnion (TRU), TrueCar Inc (TRUE), trivago NV (TRVG), Twin River Worldwide Holdings Inc (TRWH), Stars Group Inc (TSG), Tsr Inc (TSRI), Total System Services Inc (TSS), Trade Desk Inc (TTD), TTEC Holdings Inc (TTEC), Tetra Tech Inc (TTEK), TechTarget Inc (TTGT), Take Two Interactive Software Inc (TTWO), Tufin Software Technologies Ltd (TUFN), Tivity Health Inc (TVTY), Twilio Inc (TWLO), 2U Inc (TWOU), Twitter Inc (TWTR), Tyler Technologies Inc (TYL), Monotype Imaging Holdings Inc (TYPE), Travelzoo (TZOO), Uber Technologies Inc (UBER), Amerco (UHAL), Universal Health Services Inc (UHS), Unisys Corp (UIS), Unifirst Corp (UNF), Upland Software Inc (UPLD), Upwork Inc (UPWK), United Rentals Inc (URI), U S Physical Therapy Inc (USPH), Universal Technical Institute Inc (UTI), Uxin Ltd (UXIN), Visa Inc (V), Veracyte Inc (VCYT), Vectrus Inc (VEC), Veeva Systems Inc (VEEV), Verb Technology Company Inc (VERB), Veritone Inc (VERI), Volt Information Sciences Inc (VISI), Viemed Healthcare Inc (VMD), VMware Inc (VMW), 21Vianet Group Inc (VNET), Varonis Systems Inc (VRNS), Verint Systems Inc (VRNT), Verisk Analytics

Inc (VRSK), Verisign Inc (VRSN), Virtusa Corp (VRTU), Vse Corp (VSEC), VirTra Inc (VTSI), Viad Corp (VVI), Wah Fu Education Group Ltd (WAFU), WEIBO Corp (WB), 500com Ltd (WBAI), Workday Inc (WDAY), WEX Inc (WEX), Wyndham Hotels & Resorts Inc (WH), Wipro Ltd (WIT), Wixcom Ltd (WIX), Workiva Inc (WK), Willdan Group Inc (WLDN), Wns (Holdings) Ltd (WNS), Slack Technologies Inc (WORK), SCWorx Corp (WORX), WPP plc (WPP), Wanda Sports Group Co Ltd (WSG), Western Union CO (WU), 58com Inc (WUBA), Weight Watchers International Inc (WW), World Wrestling Entertainment Inc (WWE), Wyndham Destinations Inc (WYND), Wynn Resorts Ltd (WYNN), Widepoint Corp (WYY), Xenia Hotels & Resorts Inc (XHR), Xunlei Ltd (XNET), Intrexon Corp (XON), Xerox Corp (XRX), Yelp Inc (YELP), Yext Inc (YEXT), Yandex NV (YNDX), YY Inc (YY), Zillow Group Inc (Z), Zedge Inc (ZDGE), Zendesk Inc (ZEN), Zix Corp (ZIXI), Zoom Video Communications Inc (ZM), Zynga Inc (ZNGA), Zscaler Inc (ZS), Zuora Inc (ZUO), Zovio Inc (ZVO)