

TABLE 49. Domestic R&D paid for and performed by the company that was focused on software technology, by industry and company size: 2008
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Software products	Software embedded in other projects or products
All industries	21-23, 31-33, 42-81	64,382	44,635	19,747
Manufacturing industries	31-33	19,266	9,103	10,163
Food	311	16	7	10
Beverage and tobacco products	312	6	3	3
Textiles, apparel, and leather products	313-316	14	6	8
Wood products	321	2	2	1
Paper	322	D	D	8
Printing and related support activities	323	24	15	9
Petroleum and coal products	324	49	*	49
Chemicals	325	540	201	339
Basic chemicals	3251	11	4	6
Resin, synthetic rubber, fibers, and filaments	3252	2	1	1
Pesticide, fertilizer, and other agricultural chemical	3253	4	2	2
Pharmaceuticals and medicines	3254	349	168	181
Soap, cleaning compound, and toilet preparation	3256	*	*	*
Paint, coating, adhesive, and other chemical	3255, 3259	175	26	149
Plastics and rubber products	326	13	7	6
Nonmetallic mineral products	327	38	3	35
Primary metals	331	5	1	4
Fabricated metal products	332	141	78	63
Machinery	333	769	289	480
Agricultural implements	33311	21	1	21
Semiconductor machinery	333295	86	23	63
Engine, turbine, and power transmission equipment	3336	65	3	62
Other machinery	other 333	597	262	335
Computer and electronic products	334	15,127	7,493	7,634
Communications equipment	3342	3,390	1,261	2,129
Semiconductor and other electronic components	3344	5,942	3,501	2,441
Navigational, measuring, electromedical, and control instruments	3345	3,125	1,111	2,014
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,251	569	682
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	1,070	212	858
Other measuring and controlling instruments	other 3345	804	330	474
Computer and peripheral equipment and other computer and electronic products	3341, 3343, 3346	2,670	1,621	1,049
Electrical equipment, appliances, and components	335	354	142	212
Transportation equipment	336	1,100	282	818
Automobiles, bodies, trailers, and parts	3361-3363	281	19	261
Aerospace products and parts	3364	812	260	552
Aircraft, aircraft engine, and aircraft parts	336411-336413	D	D	471
Guided missile, space vehicle, and related parts	336414, 336415, 336419	D	D	81
Military armored vehicle, tank, and tank components	336992	2	*	2
Other transportation equipment	other 336	6	2	4
Furniture and related products	337	38	24	13
Miscellaneous manufacturing	339	D	D	471
Medical equipment and supplies	3391	579	208	370
Other miscellaneous manufacturing	3399	D	D	101
Nonmanufacturing industries	21-23, 42-81	45,116	35,532	9,584
Mining, extraction, and support activities	21	119	84	35
Utilities	22	18	8	10
Construction	23	16	7	9
Wholesale trade	42	132	55	77
Retail trade	44, 45	38	24	13
Electronic shopping and mail-order houses	4541	20	20	*
Other retail trade	other 44, 45	17	4	13
Transportation and warehousing	48, 49	65	47	18
Information	51	33,495	27,535	5,960

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Publishing	511	25,972	21,998	3,974
Newspaper, periodical, book, and directory publishers	5111	178	151	27
Software publishers	5112	25,794	21,847	3,947
Telecommunications	517	1,068	231	837
Internet service providers, Web search portals, and data processing services	518	6,159	5,160	999
Other information	other 51	297	147	150
Finance and insurance	52	904	511	393
Real estate and rental and leasing	53	19	4	14
Professional, scientific, and technical services	54	9,856	6,959	2,897
Architectural, engineering, and related services	5413	161	58	103
Computer systems design and related services	5415	7,665	5,916	1,749
Scientific R&D services	5417	1,469	621	847
Other professional, scientific, and technical services	other 54	561	363	198
Health care services	621-623	10	3	6
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	445	294	151
All companies	21-23, 31-33, 42-81	64,382	44,635	19,747
Small companies (number of domestic employees) ^a				
5-499	-	16,538	11,125	5,413
5-99	-	8,298	5,791	2,507
5-49	-	5,957	4,006	1,951
5-24	-	3,313	2,168	1,145
25-49	-	2,644	1,838	806
50-99	-	2,341	1,785	557
100-249	-	5,283	3,163	2,120
250-499	-	2,958	2,172	786
Medium and large companies (number of domestic employees)				
500-999	-	2,877	1,656	1,220
1,000-4,999	-	11,475	8,495	2,980
5,000-9,999	-	6,594	5,895	699
10,000-24,999	-	8,120	5,340	2,781
25,000 or more	-	18,777	12,123	6,654

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2002 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees. After 2008 BRDIS sample was selected and surveyed, an error was identified that resulted in excluding 226,884 single-establishment companies with five paid employees from sample frame. Most excluded establishments were classified in industries with low R&D intensities, such as construction, retail trade, and service sectors. Based on available information for these small single-establishment companies, their contribution to 2008 R&D estimates is estimated to be negligible.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics are representative of companies located in United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2008.