

APPENDIX TABLE 6-12

Value added of computer programming and related services, by region, country, or economy: 2001–2016

(Millions of current dollars)

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	504,255	542,661	597,652	672,881	715,651	769,005	860,541	942,926	913,419	958,799	1,033,023	1,049,867	1,070,963	1,115,735	1,114,294	1,143,400
North America																
Canada	10,439	10,916	13,021	14,948	17,242	20,058	21,985	22,936	22,527	25,779	29,645	31,333	31,928	32,014	30,586	29,679
Mexico	905	893	862	995	1,149	1,202	1,318	1,428	1,199	1,360	1,436	1,461	1,514	1,635	1,542	1,499
United States	203,206	224,273	234,416	260,388	276,765	298,295	317,890	337,408	334,236	353,010	380,897	403,544	427,908	461,958	495,898	516,970
Central and South America																
Argentina	4,090	1,245	1,388	1,732	2,085	2,522	3,230	4,040	3,910	4,559	5,363	5,659	5,909	5,034	5,919	4,648
Bolivia	54	48	46	47	46	50	56	65	73	78	86	98	108	114	134	147
Brazil	4,165	3,634	4,015	4,999	7,049	8,035	10,838	11,181	12,035	14,609	17,950	17,904	19,152	19,601	15,129	12,672
Chile	916	794	891	1,133	1,425	1,692	1,949	2,448	2,472	3,139	3,906	4,391	4,858	4,579	4,545	4,785
Colombia	852	1,259	1,180	1,421	1,781	1,936	2,431	2,816	2,834	3,545	3,949	4,392	4,533	4,541	3,813	3,730
Costa Rica	103	107	109	115	120	141	169	199	220	292	356	413	465	483	535	595
Ecuador	117	154	173	184	200	222	259	295	310	371	428	485	564	589	622	648
Honduras	28	32	35	38	41	46	54	59	65	72	77	82	86	90	92	97
Jamaica	63	68	63	69	78	83	92	104	97	118	127	130	122	116	122	126
Panama	166	178	190	201	217	241	249	281	313	356	402	449	527	591	662	719



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Peru	473	488	511	552	606	667	766	887	967	1,138	1,278	1,481	1,633	1,718	1,775	1,832
Uruguay	306	189	144	150	190	215	258	353	404	554	665	764	885	914	916	928
Venezuela	743	534	415	451	491	581	701	936	1,213	811	1,029	1,336	1,301	1,029	1,626	303
Europe																
EU	147,110	162,743	193,454	227,062	238,071	257,743	303,811	335,225	303,924	296,092	309,567	291,689	299,142	310,991	291,790	290,709
Austria	2,183	2,767	3,122	3,581	3,872	4,154	4,627	5,104	4,830	4,688	5,190	4,704	4,797	4,695	3,911	3,950
Belgium	3,323	3,470	4,157	4,658	4,915	5,334	6,598	7,744	7,312	7,128	7,890	7,443	7,763	7,880	7,106	7,272
Bulgaria	55	64	83	107	124	143	190	227	237	208	237	212	224	224	202	217
Czech Republic	746	1,106	1,143	1,239	1,686	2,153	2,750	3,859	3,556	3,500	3,922	3,360	3,197	3,095	3,033	3,175
Denmark	2,315	2,630	3,193	3,688	3,473	4,129	5,009	6,451	6,351	6,322	6,891	6,673	6,906	7,455	7,055	7,078
Finland	2,102	2,162	2,620	3,336	3,594	3,899	4,738	5,440	5,057	5,115	5,649	5,649	6,090	6,446	5,914	6,167
France	31,323	33,458	40,068	45,989	46,779	51,604	59,718	68,703	65,601	59,437	60,661	56,892	58,892	59,370	55,728	56,845
Germany	28,659	29,379	32,920	37,708	39,174	40,761	49,094	56,945	54,023	53,061	53,118	51,010	53,843	56,376	51,583	53,258
Greece	198	589	751	1,084	1,176	1,181	1,295	1,536	1,713	1,623	1,296	998	876	773	682	677
Hungary	619	810	951	1,165	1,333	1,550	1,955	2,361	2,156	2,194	2,324	2,167	2,265	2,331	2,066	2,052
Ireland	2,894	3,084	3,379	3,770	6,870	8,085	9,135	10,047	8,076	8,010	8,676	7,625	7,255	7,466	7,140	7,307
Italy	16,292	20,083	24,074	25,668	26,164	26,791	31,303	34,250	32,279	30,931	30,520	27,298	27,186	26,250	22,998	23,186
Netherlands	7,351	7,323	8,781	10,013	10,972	12,310	15,270	17,407	15,919	14,683	15,633	14,087	14,318	14,243	12,807	13,089
Poland	1,507	1,754	2,062	2,570	2,691	3,029	3,742	4,686	4,578	5,051	4,881	4,859	5,120	5,236	4,728	4,836



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Portugal	792	955	1,189	1,391	1,504	1,661	1,899	2,136	2,186	2,142	1,894	1,642	1,670	1,658	1,490	1,508
Romania	181	232	319	382	602	925	1,665	2,078	1,702	1,725	1,918	2,179	2,428	2,639	2,654	2,807
Slovakia	196	192	256	392	490	654	1,101	1,339	1,306	1,288	1,354	1,242	1,403	1,338	1,183	1,206
Spain	7,199	8,687	11,058	12,680	13,359	14,578	17,238	19,912	18,735	17,325	15,188	12,544	12,105	11,177	10,104	10,618
Sweden	6,078	6,129	7,496	9,473	9,916	10,170	11,825	13,400	11,002	12,436	14,277	13,954	14,596	14,314	13,451	13,953
United Kingdom	33,099	37,868	45,833	58,167	59,376	64,635	74,658	71,600	57,305	59,225	68,048	67,151	68,209	78,026	77,954	71,507
Other Europe																
Norway	2,185	2,533	2,846	3,658	4,392	4,419	5,806	6,422	5,876	6,253	7,144	7,241	7,438	7,530	6,154	6,038
Russia	1,419	1,409	1,760	1,718	2,619	3,728	5,800	8,653	7,081	8,517	9,996	13,046	12,397	11,116	7,818	7,226
Switzerland	5,566	6,289	6,704	7,683	7,930	8,193	8,691	10,286	10,751	11,796	14,067	13,995	14,573	15,364	15,158	15,067
Turkey	1,824	2,131	2,748	3,635	4,674	5,744	7,466	8,884	8,725	9,587	9,257	9,556	9,848	9,459	8,763	8,956
Ukraine	198	233	262	365	490	625	1,012	1,303	987	1,065	1,270	1,572	1,615	1,062	798	777
Middle East																
Bahrain	64	68	73	83	96	108	124	139	139	151	143	149	154	165	171	177
Iran	898	1,140	1,396	1,662	1,951	2,482	3,303	4,090	4,297	4,638	5,702	4,199	3,144	3,645	3,614	3,852
Israel	1,904	1,784	1,866	1,995	2,129	2,357	2,707	3,300	3,479	3,871	4,198	4,061	4,652	4,837	4,971	5,265
Jordan	105	107	113	121	121	127	135	144	156	174	188	202	216	230	246	271
Kuwait	32	39	44	47	52	54	59	63	58	66	115	117	121	131	108	107
Qatar	65	68	71	136	168	386	578	721	723	740	792	867	924	1,079	1,174	1,255



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Saudi Arabia	937	959	980	1,059	1,116	1,195	1,303	1,540	1,826	2,093	2,325	3,059	3,771	4,175	3,928	3,967
United Arab Emirates	861	992	1,141	1,367	1,549	1,774	2,420	2,773	2,502	2,582	2,770	3,048	3,161	3,488	3,468	3,421
Africa																
Cameroon	47	52	66	75	81	87	95	110	112	112	125	126	141	151	140	156
Egypt	256	237	190	178	249	308	297	361	424	480	1,346	1,423	1,398	1,457	1,666	1,707
Kenya	81	84	95	97	110	130	147	173	170	172	165	198	204	226	242	269
Morocco	278	314	398	465	520	582	713	784	834	828	916	904	966	1,003	959	994
Nigeria	1,080	1,337	1,379	1,325	1,662	1,745	1,867	2,379	2,051	2,594	2,988	3,773	4,321	4,841	4,447	4,817
Senegal	39	45	55	64	67	74	91	110	105	105	118	112	123	129	132	144
South Africa	204	192	323	430	487	514	585	555	644	908	992	895	808	795	741	666
Tunisia	187	210	252	278	286	319	360	400	417	435	474	451	486	512	462	473
Zimbabwe	16	10	54	15	5	2	3	3	5	6	7	9	10	11	13	15
Asia																
Bangladesh	320	331	353	371	370	440	480	533	620	694	727	766	943	1,107	1,294	1,426
China	2,985	3,170	3,405	3,886	4,441	5,122	6,211	7,289	7,752	8,499	10,341	11,936	14,155	16,756	19,530	21,533
India	2,971	3,170	3,722	4,873	5,813	6,762	8,812	10,453	11,509	14,613	17,238	18,028	19,126	20,697	21,302	23,862
Indonesia	446	616	790	886	1,005	1,271	1,441	1,692	1,952	2,681	3,227	3,292	3,339	3,337	3,521	3,978
Japan	87,898	87,535	92,445	95,322	94,932	91,329	93,306	107,141	113,302	121,217	123,723	121,246	98,055	88,765	83,101	91,566
Malaysia	338	358	377	396	534	600	723	829	878	1,055	1,181	1,273	1,376	1,455	1,395	1,482



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pakistan	163	203	230	262	339	670	738	724	692	741	821	843	875	1,001	1,160	1,273
Philippines	524	560	594	656	761	936	1,173	1,436	1,500	1,732	1,995	2,313	2,598	2,701	3,004	3,295
Singapore	641	676	706	764	871	1,052	1,379	1,737	1,781	2,221	2,694	2,936	3,217	3,342	3,221	3,122
South Korea	6,069	7,235	7,842	8,692	10,697	12,702	13,964	12,019	10,504	12,989	14,139	14,833	15,425	16,069	14,783	15,352
Sri Lanka	38	55	55	56	65	74	85	100	112	124	143	138	165	215	271	291
Taiwan	2,364	2,371	2,486	2,670	2,871	3,190	3,617	3,954	3,740	3,998	4,154	4,305	4,497	4,561	4,657	4,831
Thailand	682	792	903	1,025	1,120	1,310	1,489	1,625	1,502	1,778	1,975	2,188	2,313	2,364	2,455	2,528
Vietnam	117	128	141	159	165	179	210	262	299	526	589	621	723	777	853	924
Australia and Oceania																
Australia	6,086	6,921	8,858	10,674	11,909	13,278	15,657	17,559	17,334	20,628	25,008	27,688	28,262	29,805	27,919	27,439
New Zealand	631	751	1,016	1,251	1,447	1,405	1,637	1,718	1,783	2,247	2,807	2,847	4,789	5,384	4,941	4,773

EU = European Union.

Note(s)

Value added is the amount contributed by a country, firm, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. Data are not available for EU members Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Detail may not add to total because of rounding or minor discrepancies. See Appendix Table 6-1 for a full list of countries/economies in each region.

Source(s)

IHS Global Insight, World Industry Service database, accessed 15 November 2016.

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