

Appendix table 6-13

Value added of computer programming and related services, by region/country/economy: 1997–2012

(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
World	353,952	401,301	455,395	473,042	498,167	539,270	591,484	664,984	706,511	756,075	851,755	924,948	906,590	945,890	987,708	997,455
North America																
Canada	4,841	5,094	5,622	6,384	6,552	6,851	8,173	9,382	10,822	12,589	13,799	14,545	15,994	19,771	22,908	22,928
Mexico	2,339	2,457	2,889	3,500	3,677	3,628	3,502	3,609	4,053	4,265	4,734	4,749	4,049	4,548	4,648	4,700
United States	137,532	158,143	181,826	178,742	195,199	219,552	227,077	254,103	268,146	287,897	310,956	321,099	320,646	339,186	361,515	376,888
Central and South America																
Argentina	3,565	3,616	3,560	3,560	3,415	1,041	1,163	1,257	1,476	1,745	2,161	2,737	2,746	3,085	3,492	3,673
Bolivia	46	51	60	57	54	48	46	47	46	50	56	65	73	78	85	94
Brazil	7,483	7,565	5,238	7,028	5,796	5,422	6,056	7,657	11,084	12,982	17,420	18,420	19,616	23,687	16,501	15,642
Chile	970	948	852	851	783	760	891	1,133	1,425	1,691	1,949	2,448	2,519	3,239	3,970	4,281
Colombia	1,329	1,212	918	905	852	1,259	1,180	1,421	1,781	1,936	2,431	2,816	2,834	3,551	3,928	4,347
Costa Rica	72	75	80	90	103	107	109	115	120	141	169	199	220	291	334	369
Ecuador	235	221	131	80	121	186	245	306	344	379	412	138	150	181	211	232
Honduras	36	43	46	51	54	60	66	70	77	85	98	109	120	134	143	151
Jamaica	43	57	60	59	63	68	63	69	78	83	92	104	97	116	124	124
Panama	128	138	152	161	166	178	190	201	217	241	273	302	344	396	457	533
Peru	491	484	449	471	499	519	546	589	647	708	811	955	1,047	1,221	1,432	1,640
Uruguay	329	347	339	330	306	189	144	150	190	215	258	353	397	539	648	713
Venezuela	470	587	637	671	743	534	415	451	491	581	701	936	1,213	811	1,118	1,346
Europe																
EU	106,864	127,560	140,009	138,505	150,896	165,658	196,927	228,542	240,092	258,400	304,181	336,540	312,691	297,912	302,801	291,130
Austria	1,377	1,755	2,054	2,021	2,183	2,767	3,122	3,581	3,872	4,154	4,627	5,099	4,776	4,633	5,128	4,769
Belgium	1,885	2,393	2,764	2,622	3,323	3,470	4,157	4,658	4,915	5,334	6,598	7,722	7,254	7,067	7,825	7,407
Bulgaria	30	40	46	44	48	58	74	95	113	130	167	202	214	184	207	190
Czech Republic	585	632	619	630	746	1,106	1,143	1,239	1,686	2,153	2,750	3,743	3,431	3,363	3,763	3,411
Denmark	1,792	1,828	2,012	1,991	2,316	2,631	3,192	3,686	3,476	4,127	5,006	6,458	6,407	6,370	6,950	6,901
Finland	1,183	1,596	1,760	1,674	2,102	2,162	2,620	3,336	3,594	3,899	4,738	5,437	5,108	5,165	5,703	5,591
France	25,202	29,364	32,276	30,328	31,323	33,458	40,068	45,989	46,779	51,604	59,582	69,447	66,475	60,273	61,476	58,458
Germany	22,637	26,298	26,359	25,636	28,659	29,379	32,920	37,708	39,174	40,761	49,094	56,880	53,755	52,783	52,831	51,253
Greece	33	38	57	79	198	589	751	1,084	1,176	1,181	1,295	1,536	1,713	1,563	1,396	1,219
Hungary	322	402	476	511	619	810	951	1,165	1,333	1,550	1,955	2,366	2,159	2,197	2,337	2,230
Ireland	950	1,344	1,396	2,677	2,894	3,084	3,379	3,770	6,870	8,085	9,135	10,047	8,076	7,350	7,550	7,137
Italy	13,418	14,590	15,938	14,987	16,292	20,083	24,074	25,668	26,164	26,791	31,303	34,237	32,423	31,072	30,665	28,301
Netherlands	4,930	6,010	6,974	6,780	7,351	7,323	8,781	10,013	10,972	12,310	15,270	17,453	15,911	14,678	15,626	14,372
Poland	836	1,049	1,003	1,050	1,507	1,754	2,062	2,570	2,691	3,029	3,742	4,686	4,310	4,700	4,423	4,310
Portugal	697	754	818	751	792	955	1,189	1,391	1,504	1,661	1,904	2,114	2,133	2,033	1,737	1,525
Romania	132	169	103	164	181	232	319	382	602	925	1,663	2,078	1,702	1,725	1,926	2,344
Slovakia	181	145	143	150	196	192	256	392	490	654	1,101	1,339	1,306	1,156	1,170	1,203
Spain	4,460	5,085	6,056	5,983	7,199	8,687	11,058	12,680	13,359	14,578	17,238	19,912	18,735	17,160	15,349	13,185
Sweden	4,187	4,842	5,707	5,683	6,078	6,129	7,496	9,473	9,916	10,170	11,825	13,398	11,020	12,455	14,354	14,078
United Kingdom	22,028	29,228	33,447	34,744	36,890	40,789	49,315	59,661	61,405	65,306	75,187	72,385	65,783	61,987	62,384	63,243

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(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Other Europe																
Norway	1,257	1,731	2,068	2,142	2,185	2,533	2,846	3,658	4,392	4,419	5,806	6,488	5,872	5,761	6,611	6,693
Russia	1,459	1,087	804	1,083	1,419	1,409	1,760	1,718	2,619	3,728	5,800	8,653	7,081	8,517	9,665	10,705
Switzerland	3,735	4,038	4,423	4,462	4,940	5,590	5,917	6,810	7,002	7,251	7,704	9,159	9,535	10,499	12,458	12,093
Ukraine	149	130	114	115	189	225	253	354	477	615	1,009	1,315	1,066	1,100	1,201	1,378
Middle East																
Bahrain	55	57	59	60	61	66	68	76	88	100	110	122	125	131	137	143
Iran	620	635	555	678	898	1,140	1,396	1,662	1,951	2,482	3,303	3,832	3,940	4,562	5,395	4,360
Israel	1,364	1,533	1,584	1,930	1,939	1,875	1,849	2,056	2,344	2,545	2,984	3,693	3,788	4,260	4,609	4,618
Jordan	87	91	95	100	105	107	113	121	134	146	156	171	187	209	228	249
Kuwait	24	22	23	32	32	39	44	47	52	54	59	63	58	59	61	65
Qatar	56	62	64	64	65	68	71	136	168	337	482	604	665	727	900	1,007
Saudi Arabia	904	869	900	918	937	959	980	1,022	1,066	1,113	1,168	1,310	1,472	1,627	1,829	1,969
Turkey	611	1,607	1,963	2,399	1,806	2,113	2,732	3,605	4,652	5,714	7,446	8,877	8,732	9,596	9,268	9,373
United Arab Emirates	372	385	400	415	861	992	1,141	1,367	1,549	1,774	2,420	2,773	2,494	2,545	2,520	2,659
Africa																
Cameroon	47	53	52	44	47	45	83	75	81	87	95	110	112	112	120	120
Egypt	211	230	261	256	256	237	190	178	249	308	328	413	484	553	601	640
Kenya	36	38	34	56	60	63	71	73	84	98	114	126	127	132	129	154
Morocco	81	270	290	289	286	323	408	478	534	599	752	843	893	893	978	984
Nigeria	240	374	120	135	140	151	187	281	437	506	586	697	641	805	842	995
Senegal	32	34	39	37	39	45	55	64	67	74	91	110	106	105	117	122
South Africa	216	228	215	205	204	193	323	431	487	514	584	555	647	908	994	958
Tunisia	167	171	187	168	177	199	238	262	270	302	340	381	393	412	426	429
Zimbabwe	25	17	7	9	16	10	54	15	5	2	3	3	3	4	6	6
Asia																
Bangladesh	297	300	319	324	320	331	353	371	370	373	405	449	522	583	603	607
China	2,957	2,858	2,682	2,594	2,779	2,967	3,204	3,660	4,210	4,897	5,974	7,023	7,462	8,187	9,888	11,430
India	2,272	2,359	2,663	2,974	3,190	3,429	4,032	4,694	5,602	6,519	8,513	10,150	11,140	14,248	16,821	16,664
Indonesia	618	231	300	453	446	616	790	886	1,005	1,271	1,441	1,692	1,952	2,681	3,227	3,348
Japan	53,744	59,643	75,722	91,145	87,898	87,535	92,445	95,322	94,932	91,329	93,306	107,141	113,302	119,818	118,664	119,317
Malaysia	444	320	338	329	338	358	377	396	534	600	723	829	878	1,050	1,174	1,267
Pakistan	156	151	156	165	142	164	176	194	245	331	391	411	410	408	458	494
Philippines	500	504	645	599	555	594	630	695	806	990	1,241	1,518	1,584	1,829	2,093	2,374
Singapore	762	636	628	673	639	673	704	754	863	1,046	1,371	1,726	1,747	2,167	2,630	2,754
South Korea	4,657	3,494	4,946	6,432	6,069	7,235	7,842	8,692	10,697	12,702	13,964	12,035	10,620	13,138	14,128	14,628
Sri Lanka	24	35	35	37	36	55	55	56	65	74	85	100	112	124	145	145
Taiwan	1,110	1,273	1,703	2,205	2,298	2,279	2,386	2,562	2,713	3,012	3,499	4,001	4,029	4,634	5,181	5,368
Thailand	659	541	698	749	682	792	903	1,025	1,120	1,310	1,489	1,622	1,534	1,828	2,071	2,242
Vietnam	105	107	105	108	117	128	141	159	170	184	216	269	308	338	378	424

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(Millions of current dollars)

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Australia/Oceania																
Australia	6,336	5,924	6,617	6,607	6,087	6,921	8,858	10,676	11,934	13,278	15,657	17,559	16,200	20,480	24,092	25,145
New Zealand	792	665	713	606	631	751	1,016	1,251	1,447	1,405	1,637	1,611	1,619	2,113	2,747	2,735

EU = European Union.

NOTES: 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: IHS Global Insight, special tabulations (2013) of the World Industry Service database.

Science and Engineering Indicators 2014