

2002
Global IT IQ Report
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For additional information, please contact:

Eileen Townsend
703-674-3430
Brainbench, Inc.
14901 Bogle Drive Chantilly, VA 20151

What the Report Covers

For the first time, Brainbench – the global leader in online testing -- has mined its extensive database of more than 3.5 million registered users to identify the countries and geographic regions with the highest concentrations of certified professionals in 30 of the most critical information technology skill areas. The result is the Brainbench Global IT IQ Report, which identifies a number of key IT certification metrics, including:

- ✓ The total number of certified IT professionals by country for North America, Europe, Russia and the Newly Independent States, the Middle East, South Asia, the Pacific Rim and Australia/New Zealand.
- ✓ Breakout data on the number of IT professionals in all 30 categories for Iran, Iraq and Afghanistan
- ✓ Detailed data on the top 10 IT certifications within 10 of the largest U.S. metropolitan statistical areas

Methodology

Brainbench mined its database to determine the 30 most popular tests and certifications around the globe in 2001. Results for each test were sorted by country and consolidated into an overall indicator of the total number of certified IT professionals in all 30 categories. Results were then grouped by geographic region of the world so that they could be compared and contrasted.

The following are the top 30 certifications (listed alphabetically) analyzed for the report:

Active Server Pages
C
C++
Computer Technical Support
HTML 3.2
HTML 4.0
Java 1
Java 2
Java 2 - GUI
Java 2 - Non-GUI
Javascript
Linux Administration (General)
Linux Administration (Red Hat)
Linux Administration (SuSE)
Linux Programming (General)
MS Windows 98 Administration
MS Windows NT 4.0 Administration
Network Technical Support
Oracle PL/SQL
RDBMS Concepts
Unix Administration (AIX)
Unix Administration (General)
Unix Administration (HP)
Unix Administration (Solaris)
Unix Korn Shell Scripting
Unix Programming (General)
Visual Basic 5.0
Visual Basic 6.0
XML
XSL

Summary Findings

- **The top 10 countries with the most certified IT professionals are:**

1) United States	6) Romania
2) India	7) United Kingdom
3) Russian Federation	8) Bulgaria
4) Ukraine	9) Pakistan
5) Canada	10) Australia
- **In the U.S., the San Francisco area overtakes last year's winner Seattle as the top IT IQ city with more than 2,200 certified professionals.** Seattle/Tacoma drops to number nine in this year's rankings.
- **In South Asia, India, with over 145,000 certifications in 2001, has the second highest IT IQ in the world.** Pakistan is a distant second in this region with only slightly more than 8,000 certifications in 2001.
- **The Russian Federation and Newly Independent States (NIS) have a critical mass of certified IT professionals, with Russia receiving over 68,000 certifications last year.** Turkmenistan has the fewest, with only 58 certifications in 2001.
- **Israel leads the Middle East with more than 3,000 certifications in 2001.** Yemen ranks last with only 3 certified professionals in 2001.
- **In 2001, despite the Taliban regime, Afghani's received 286 IT certifications.** Top certifications earned by Afghanis are for the C programming language, Java 1, Java 2, Linux Administration and HTML 3.2
- **Iran and Iraq, two of the three countries recently named by President Bush as part of the "axis of evil," received IT certifications in 2001.**

No tests were taken, or certifications received, by participants from North Korea.

- **In Europe, Romania leads the continent with over 16,000 IT certifications in 2001, followed closely by the United Kingdom with almost 15,000.** Bosnia and Herzegovina are last with just over 200 certifications received in 2001.
- **In South America, Brazil leads the continent with more than 2,300 certified IT professionals, followed by number two Argentina with 800.** Paraguay has the fewest in South America with 11 certified professionals in 2001.
- **In Asia and the Pacific Rim, Australia ranks first, with 6,800 certifications, followed closely by Indonesia with almost 5,900 certified professionals in 2001.**
- **On the African continent, South Africa is the clear leader, with more than 2,600 certifications, placing it in the top 25 IT IQ countries on a worldwide basis.**

Detailed Results

The top 100 IT IQ countries in 2001 are ranked below:

Rank	Country	# of Certified Professionals	Rank	Country	# of Certified Professionals
			42	Hong Kong	1,103
1	United States	194,211	43	Croatia	1,070
2	India	145,517	44	Greece	1,070
3	Russian Federation	68,050	45	Finland	1,044
4	Ukraine	23,349	46	Argentina	841
5	Canada	19,181	47	Switzerland	792
6	Romania	16,122	48	Spain	706
7	U.K.	14,642	49	Yugoslavia	657
8	Bulgaria	8,844	50	Georgia	644
9	Pakistan	8,084	51	Egypt	632
10	Australia	6,800	52	Hungary	630
11	Indonesia	5,891	53	Uzbekistan	623
12	Belarus	5,481	54	Austria	620
13	Germany	4,802	55	Bangladesh	613
14	Latvia	4,597	56	Saudi Arabia	592
15	Sweden	4,357	57	Jordan	574
16	Philippines	3,707	58	Thailand	569
17	Singapore	3,559	59	Kyrgyzstan	564
18	Netherlands	3,378	60	Iran	522
19	Israel	3,164	61	Japan	503
20	Lithuania	2,972	62	Portugal	431
21	South Africa	2,663	63	Nigeria	405
22	Brazil	2,340	64	Kuwait	335
23	Belgium	2,143	65	Venezuela	317
24	Estonia	2,054	66	Columbia	313
25	Malaysia	1,919	67	Algeria	302
26	Italy	1,882	68	Cuba	300
27	Poland	1,784	69	Afghanistan	286
28	Moldova	1,750	70	Zimbabwe	215
29	Viet Nam	1,686	71	Angola	206
30	Norway	1,593	72	S. Korea	205
31	France	1,588	73	Qatar	204
32	Denmark	1,523	74	Bosnia/Herzegovina	203
33	United Arab Emirates	1,485	75	Lebanon	168
34	Kazakhstan	1,471	76	Oman	140
35	Czech Republic	1,460	77	Taiwan	138
36	New Zealand	1,440	78	Chile	129
37	Ireland	1,411	79	Peru	124
38	China	1,325	80	Kenya	94
39	Mexico	1,291	81	Ecuador	86
40	Turkey	1,221	82	Uruguay	80
41	Armenia	1,110	83	Uganda	64

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Rank	Country	# of Certified Professionals	Rank	Country	# of Certified Professionals
84	Turkmenistan	58	93	Zambia	28
85	Morocco	56	94	Gabon	25
86	Bolivia	55	95	Togo	22
87	Tanzania	53	96	Mozambique	21
88	Ghana	47	97	Burkina Faso	21
89	Syria	41	98	Guyana	18
90	Rwanda	40	99	Burundi	18
91	Namibia	36	100	Cambodia	17
92	Botswana	30			

The above numbers represent the IT certifications for 30 Brainbench tests. Brainbench overall has issued more than 700,000 IT certifications to unique test takers in more than 200 categories. The following estimates for unique test takers for other major programs are provided below:

Novell: 600,000

CompTIA: 550,000

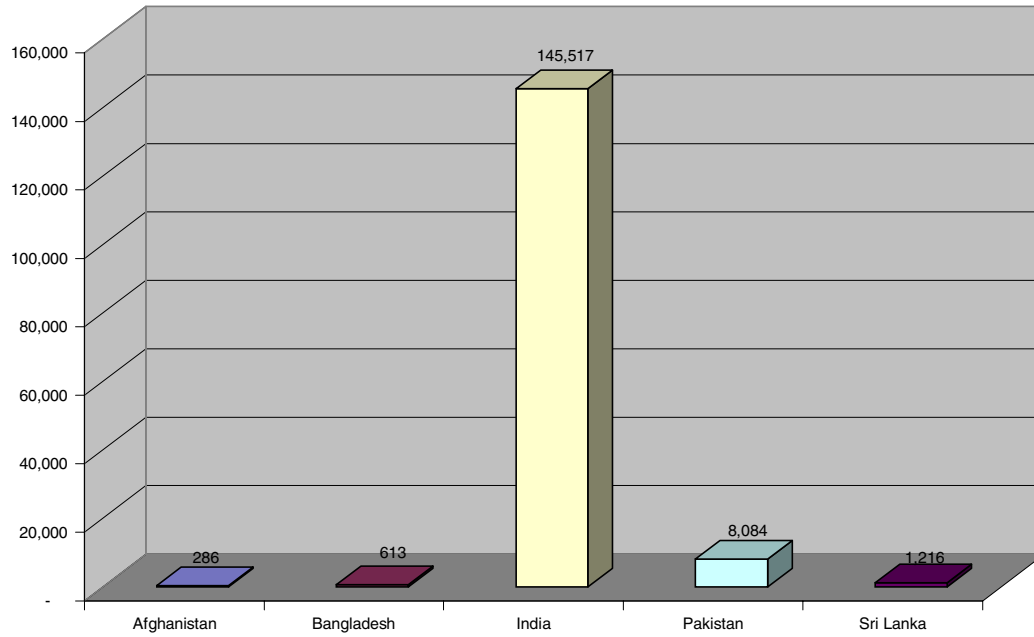
MCSE: 437,000

Cisco: 400,000

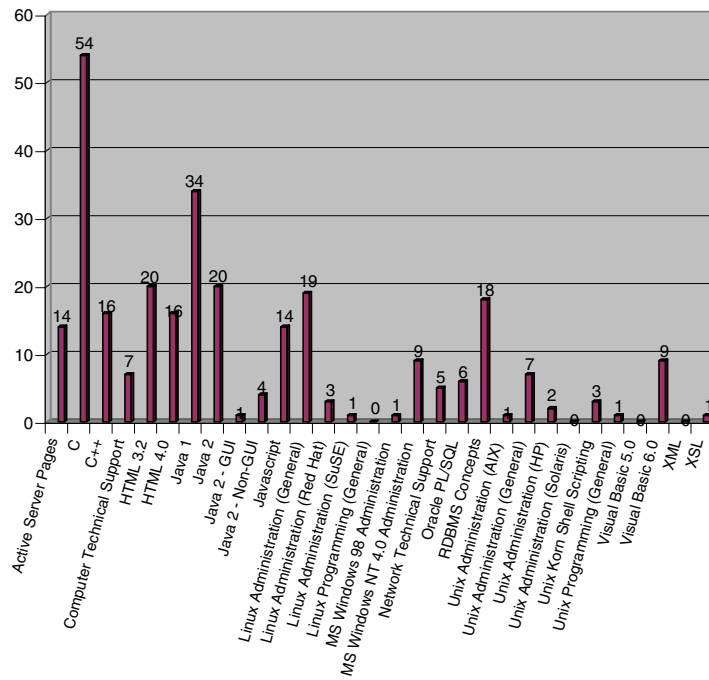
South Asia:**India Certifications Second Only To U.S; Afghans Receive Certifications Despite Repressive Taliban Regime**

In 2001, India is the clear leader in South Asia and second in the world, with more than 145,000 IT certifications awarded. Pakistan is a distant second, with just over 8,000 certifications earned, followed by Bangladesh and Afghanistan. Almost 300 professional IT certifications are earned in Afghanistan despite the repressive Taliban regime, with these certifications concentrated in C, Java and HTML.

South Asia IT Certifications



Afghanistan 2001 IT Certifications

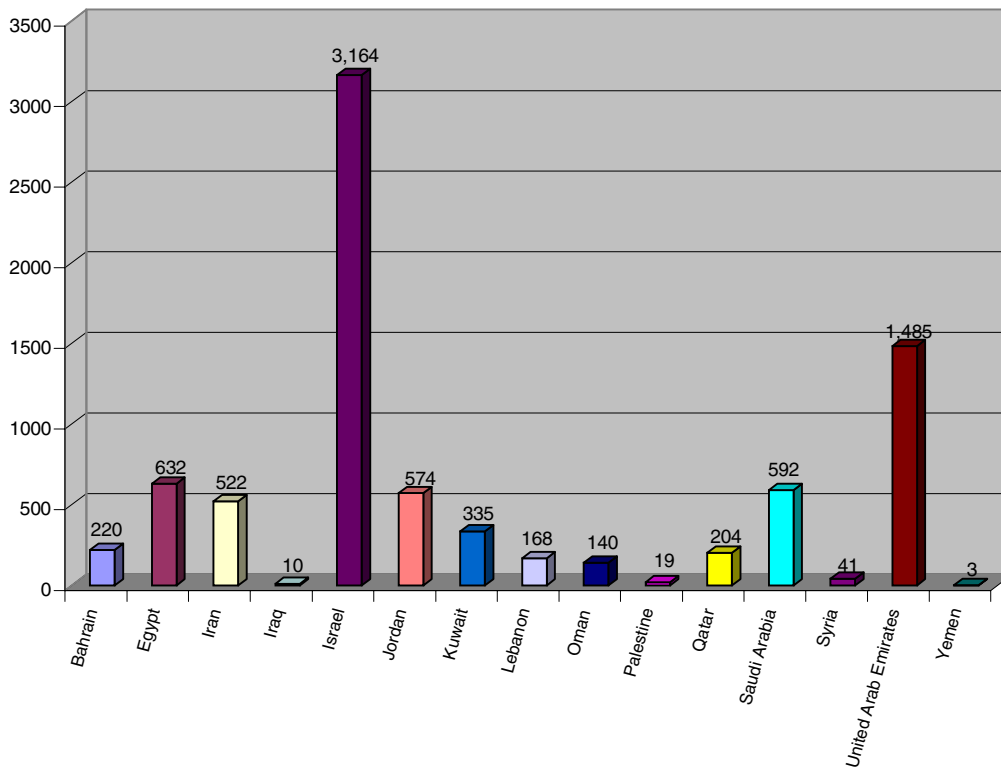


Middle East:

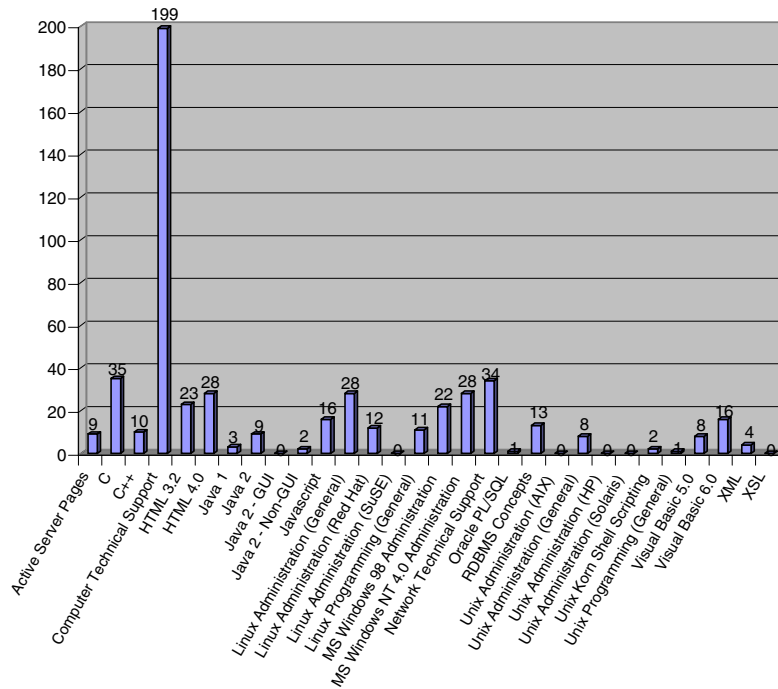
Israel Leads, but “Axis of Evil” Countries also Rank

Israel leads the Middle East in the total number of certifications with more than 3,100 received last year, but Iran and Iraq also place on the list. In Iran, the most popular certifications are Computer Technical Support, followed by C programming and Network Technical Support.

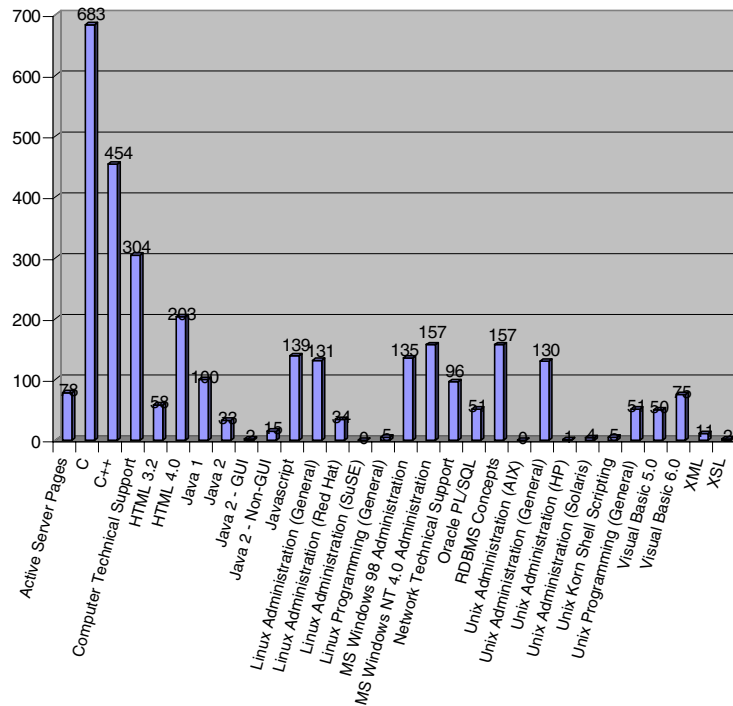
Middle East IT Certifications



Islamic Republic of Iran IT Certification Detail



Israeli 2001 IT Certifications

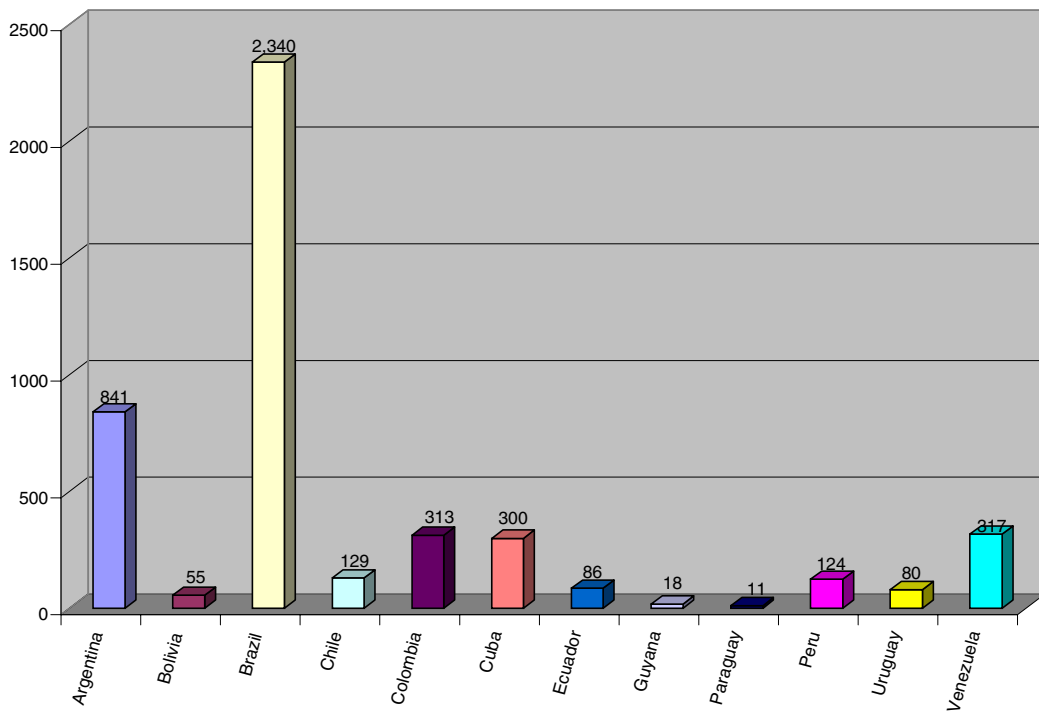


South America:

Brazil Leads the Continent

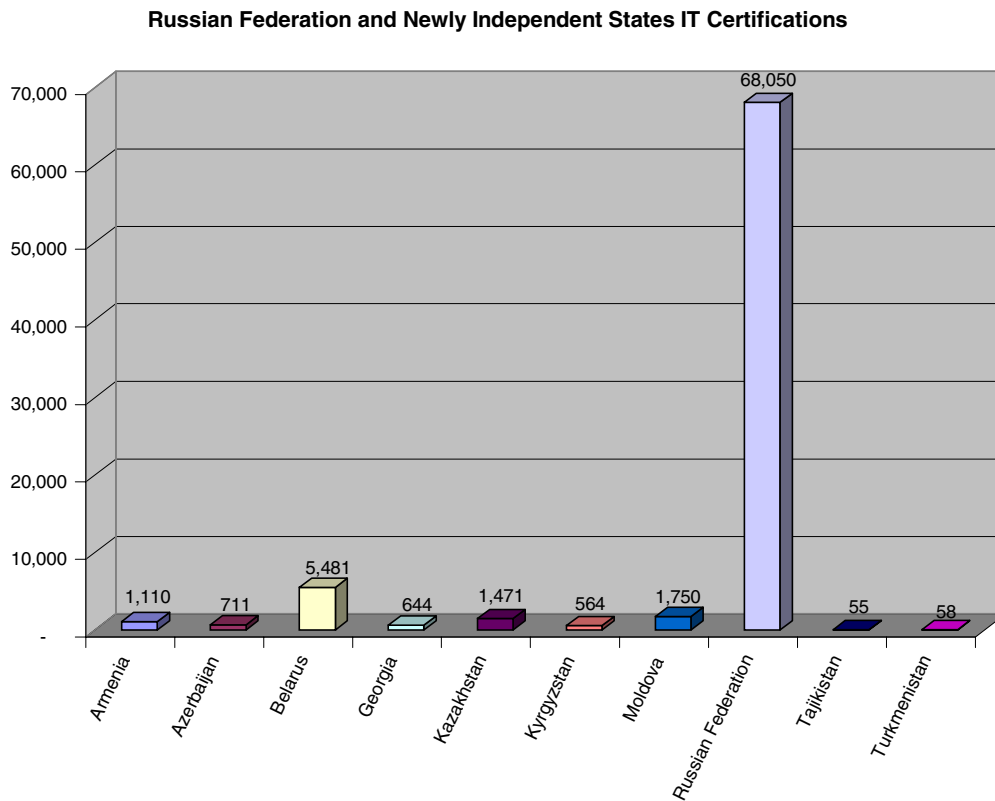
Brazil leads the South American continent in the number of certified IT professionals in 2001, however, despite economic woes, Argentina's 841 places it a surprisingly strong second. Colombia and Venezuela are in a virtual tie for third, with 313 and 317 certifications respectively, while Cuba is right behind these countries with 300 certifications in 2001.

South American IT Certifications



Russia and the Newly Independent States (NIS): Critical Mass of Certified Professionals

The Russian Federation is the clear leader with 68,050 certifications in 2001, providing a critical mass of IT professionals for firms doing business in that country. In addition, members of the NIS, such as Ukraine and Belarus appear to be developing their own critical mass of IT professionals, while the “Stans” are making some progress with the number of certified professionals.

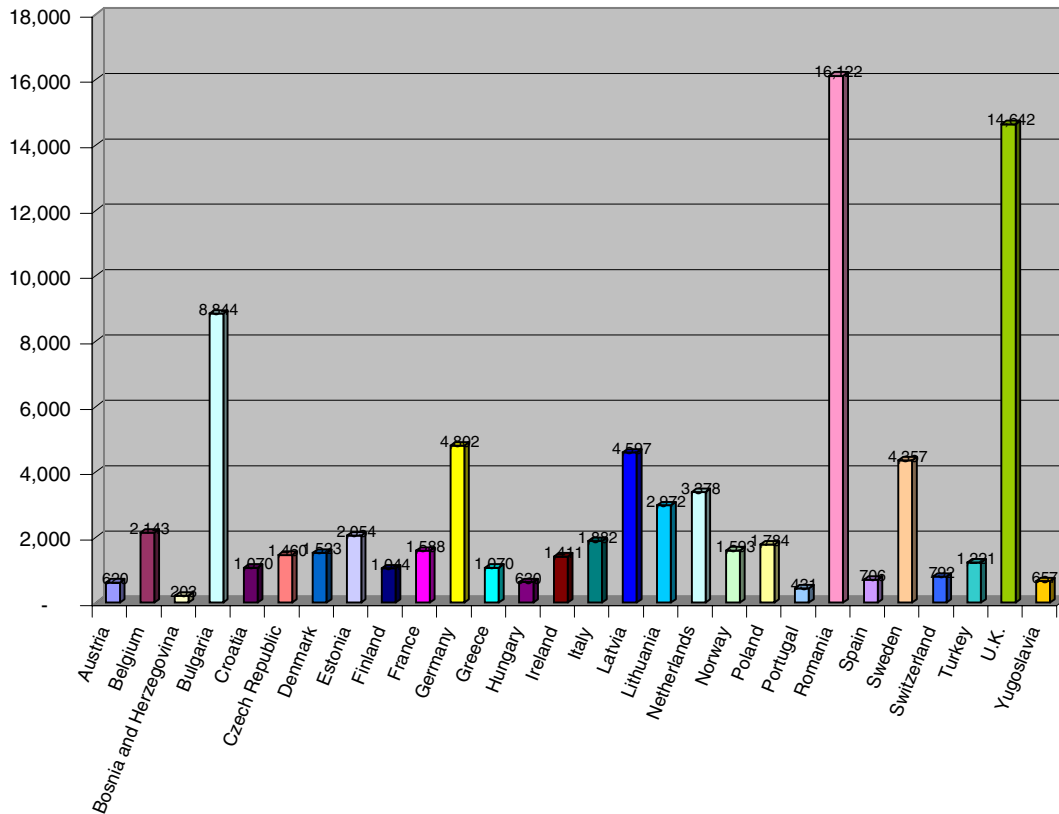


Europe:

Romanian Certifications Tops

In Europe, Romania takes a surprising lead over its continental neighbors, earning more than 16,000 certifications in 2001, which outpaces the United Kingdom in the number-two spot. Bulgaria places a strong third with over 6,800 certifications, while Germany and Latvia are in a virtual dead heat for fourth.

European IT Certifications

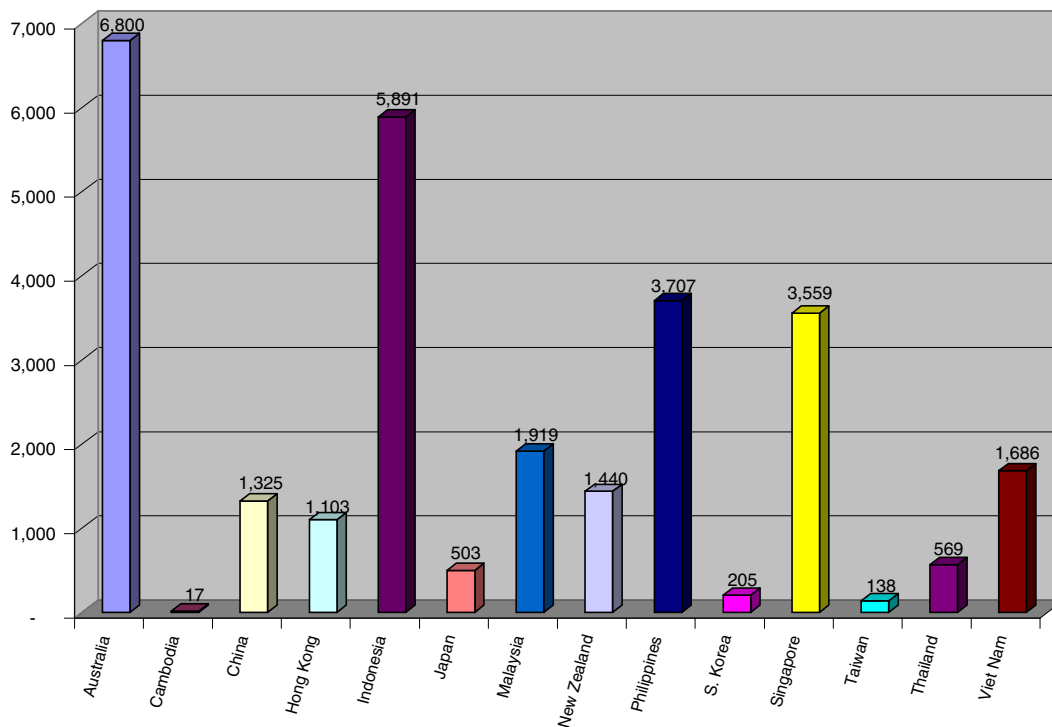


Asia/Australia/New Zealand:

Australia Leads, but Indonesia a Strong Number Two

With 6,800 certifications, Australia leads in the Asia/Pacific region in total certifications. Indonesia, however, with almost 6,000 certifications and the Philippines with over 3,700 certifications, also appear to be developing a critical mass of IT professionals.

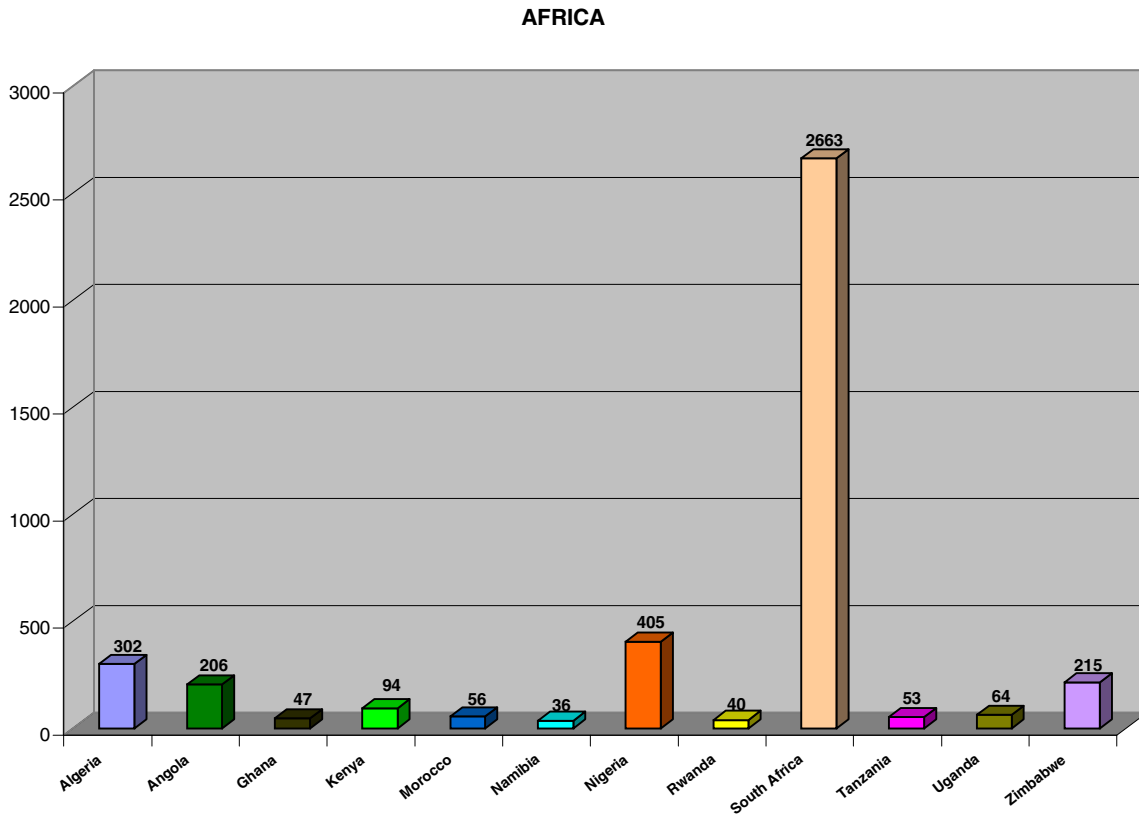
Asia/Pacific IT Certifications



Africa:

South Africa Leads the Continent

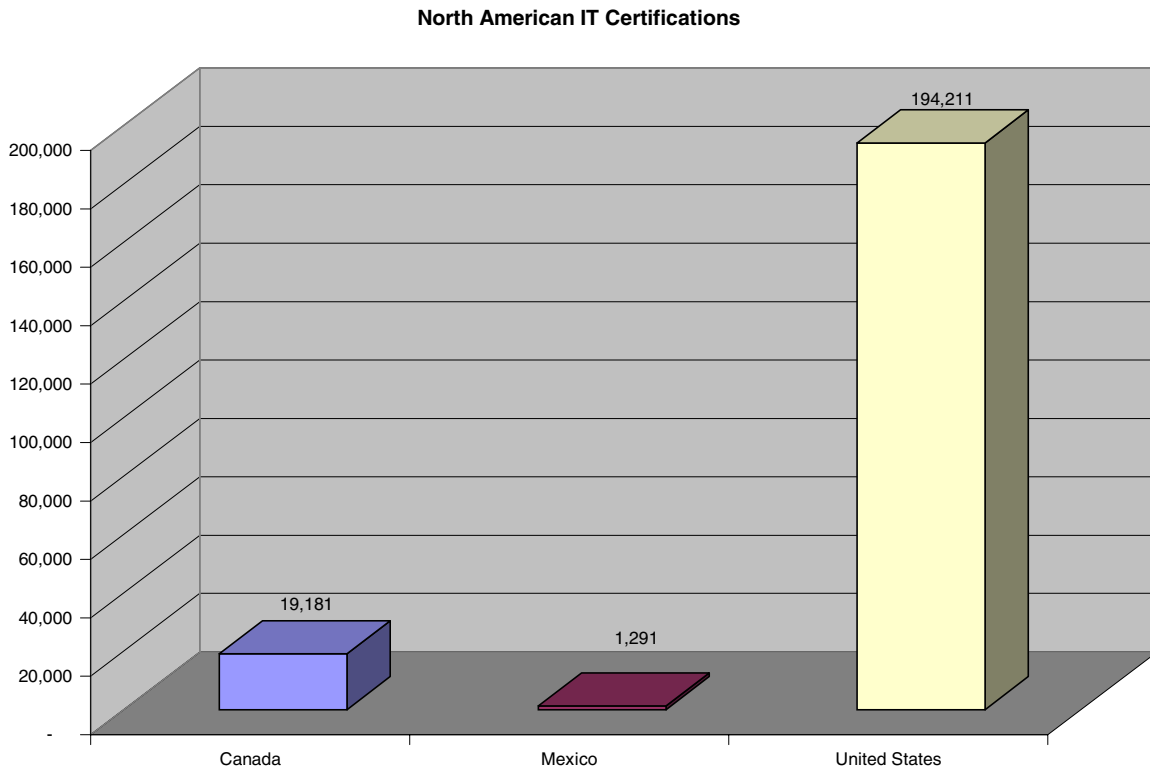
South Africa has a commanding lead in the number of IT certifications on the African continent, with almost 2,700 earned in 2001. Many of these are concentrated in Computer Technical Support and Microsoft Windows NT 4.0 Administration. Nigeria is a distant second with slightly more than 400 certifications in the same period.



North America:

U.S. the Worldwide Leader

In North America, the United States leads the continent, and the world in 2001 with almost 200,000 IT certifications. Canada had a strong showing of almost 20,000 certifications for the year.



United States:

San Francisco Moves to Top Slot; Seattle/Tacoma Slides to Number Nine

In 2000, Seattle/Tacoma took top honors for the number of certified IT professionals, in 2001, the San Francisco Bay area earns this honor. In fact, there was a wholesale shakeup in the rankings in 2001 compared to 2000.

The IT IQ rankings for the top ten U.S. metropolitan areas are:

1. San Francisco/Oakland/San Jose, CA
2. New York/North Jersey/Long Island/Connecticut
3. Washington/Baltimore
4. Chicago/Gary/Lake County, IL
5. Dallas/Ft. Worth, TX
6. Los Angeles/Anaheim/Riverside, CA
7. Atlanta, GA
8. Detroit/Ann Arbor, MI
9. Seattle/Tacoma, WA
10. Denver/Boulder, CO

2001 vs. 2000 U.S. IT IQ Rankings

Year-over-year from 2000 to 2001, major shifts occurred in the IT IQ rankings of U.S. metropolitan areas. All but two metro areas fell out of the top ten rankings and were replaced by larger cities. Last year's number two metro area, San Francisco, moved into the number one slot, while number one Seattle/Tacoma dropped to number nine.

2000 Rank

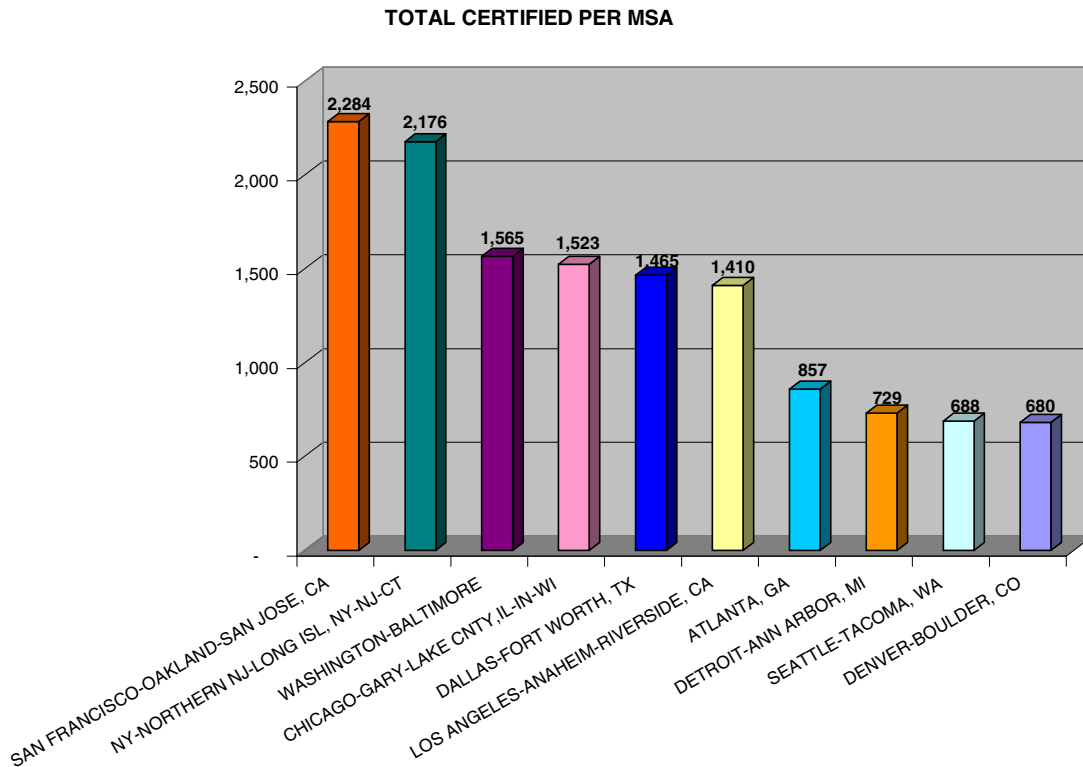
1. Seattle
2. San Francisco -Oakland- San Jose
3. Raleigh-Durham, NC
4. Minneapolis - St. Paul, MN
5. Milwaukee-Racine, WI
6. St. Louis, MO
7. Dayton-Springfield, OH
8. Austin, TX
9. Greensboro-Winston-Salem-High Point, NC
10. Las Vegas, NV

2001 Rank

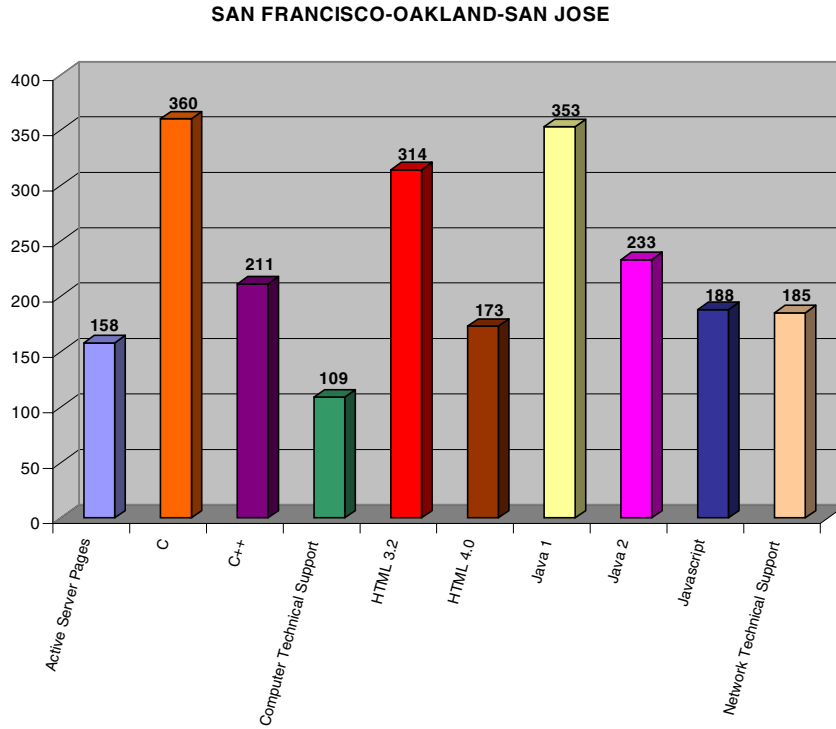
1. San Francisco -Oakland- San Jose
2. New York - N. New Jersey - Long Island - CT
3. Washington/Baltimore
4. Chicago - Gary - Lake County, IL
5. Dallas - Ft. Worth
6. LA - Anaheim - Riverside, CA
7. Atlanta, GA
8. Detroit - Ann Arbor, MI
9. Seattle-Tacoma, WA
10. Denver-Boulder, CO

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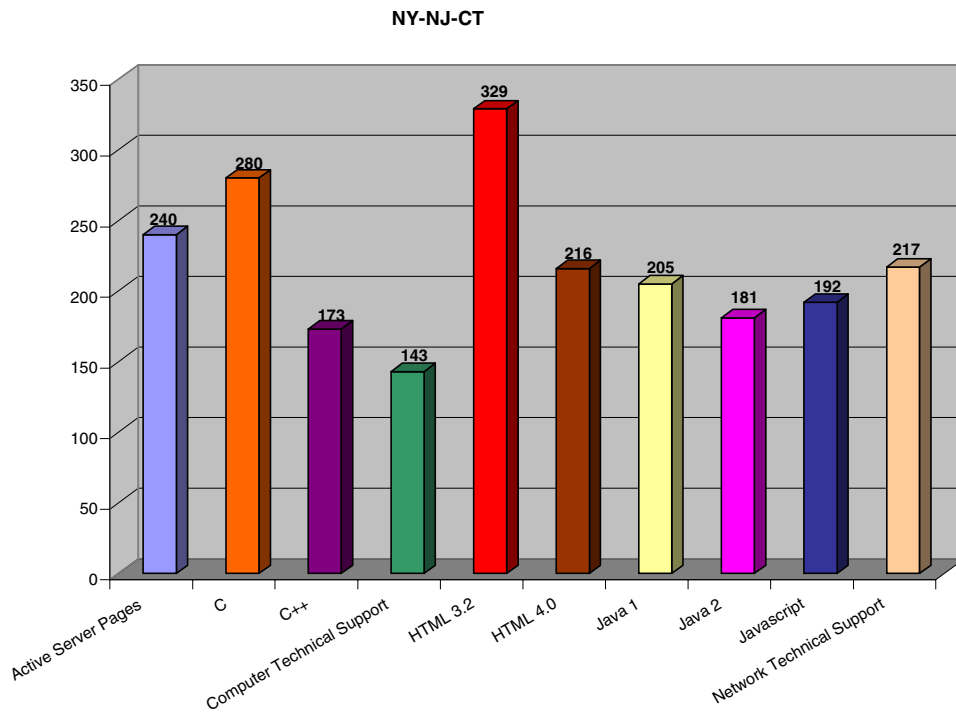
Total certifications by metropolitan area are ranked below. Detailed information on the top ten certifications for each metropolitan area is charted as well.



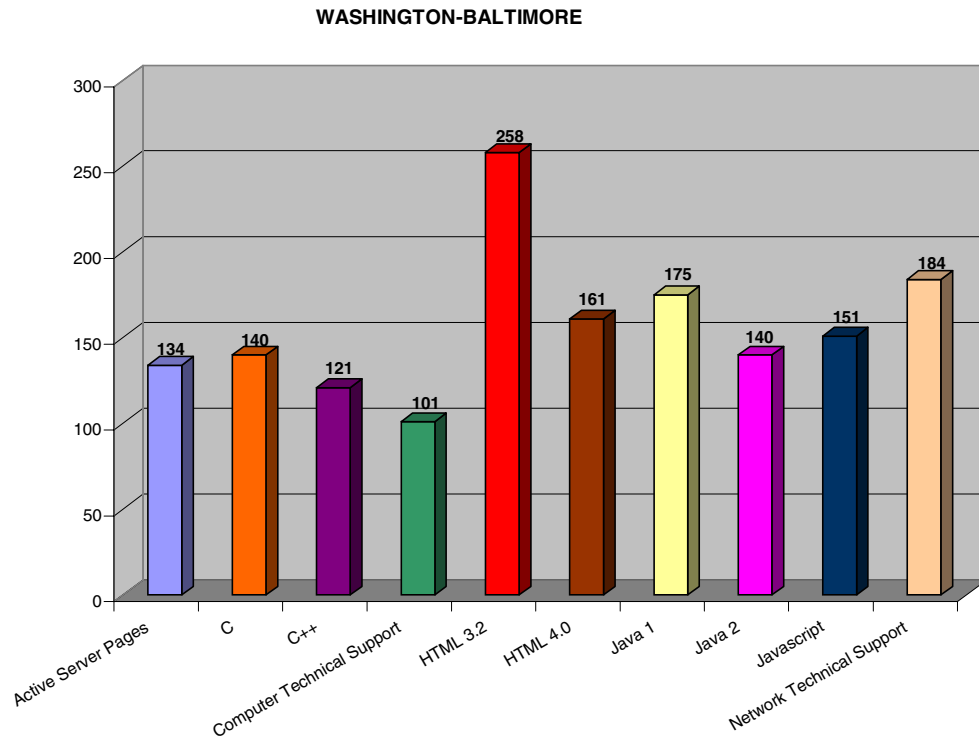
1. San Francisco/Oakland/San Jose



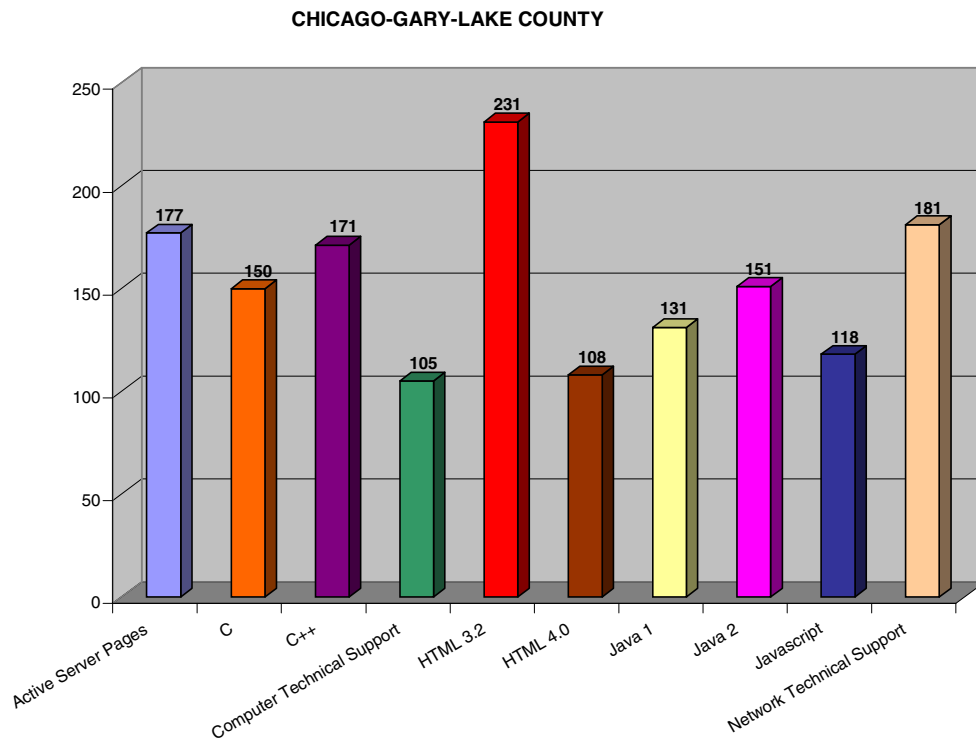
2. New York/New Jersey/Long Island/Connecticut

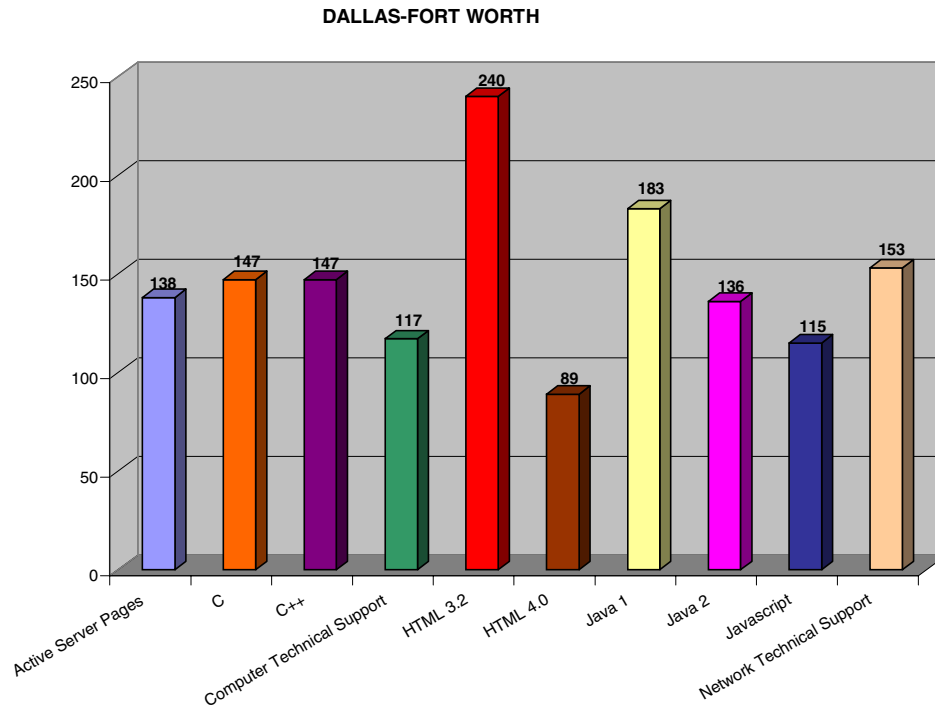
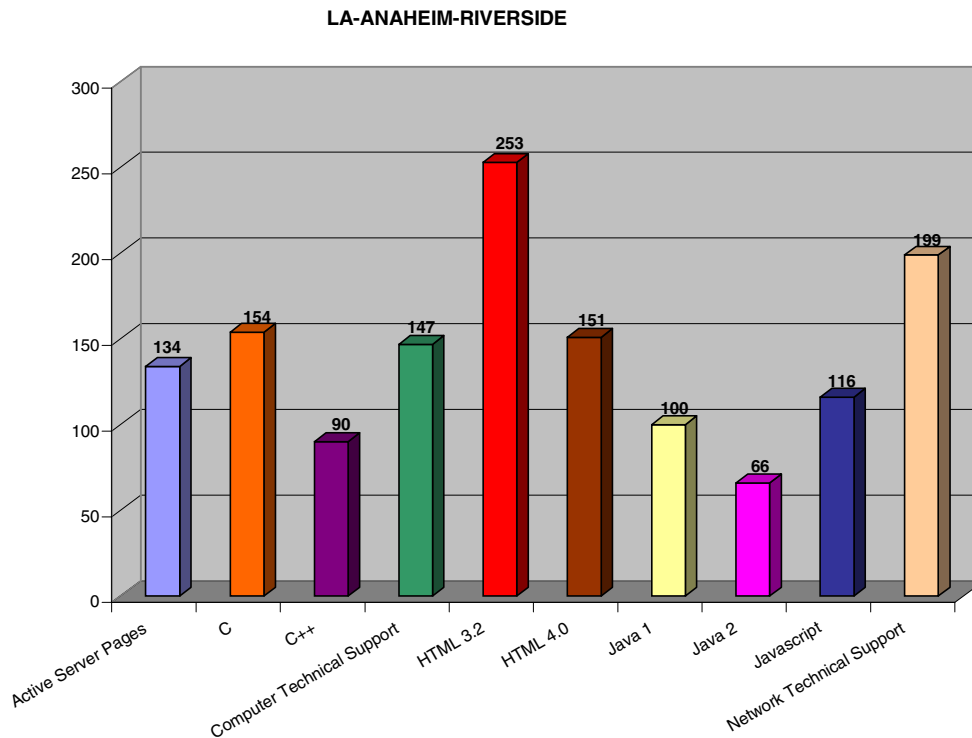


3. Washington/Baltimore

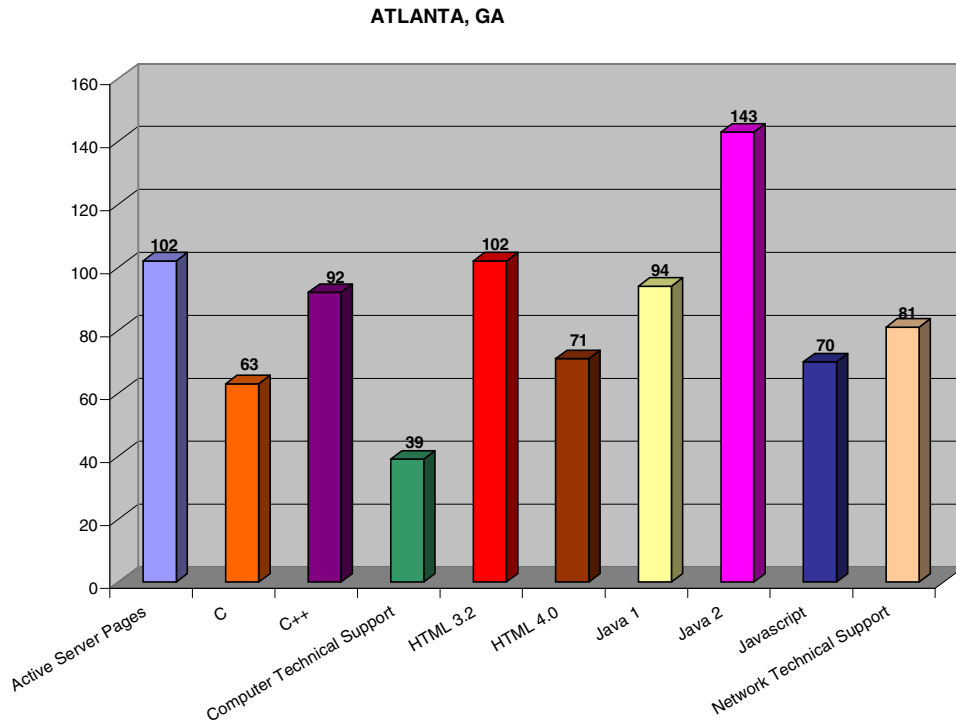


4. Chicago/Gary/Lake County, IL

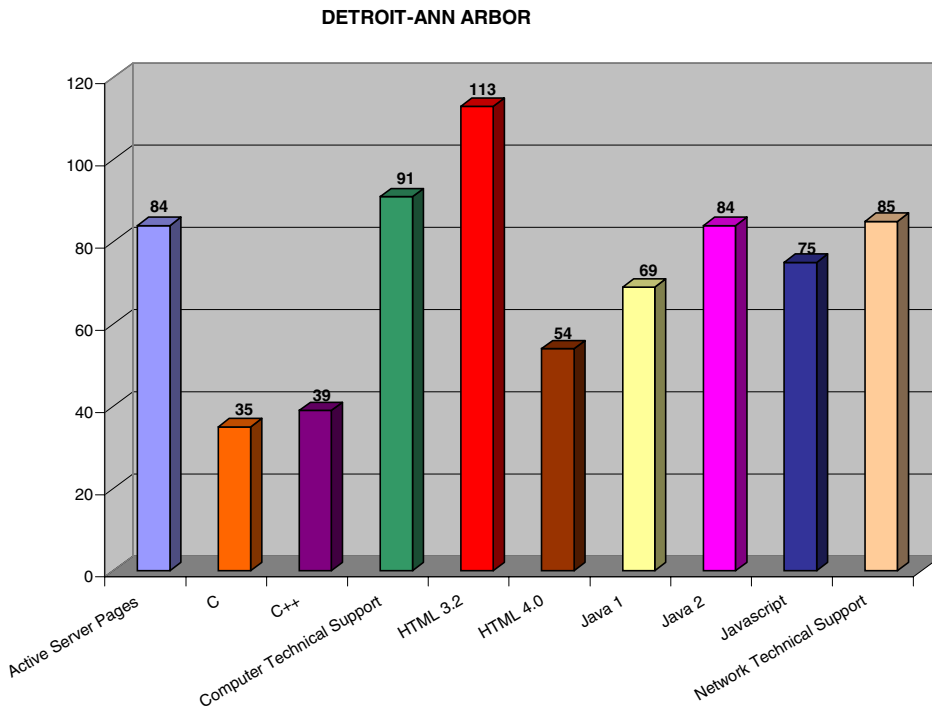


5. Dallas/Ft. Worth, TX

6. Los Angeles/Anaheim/Riverside, CA


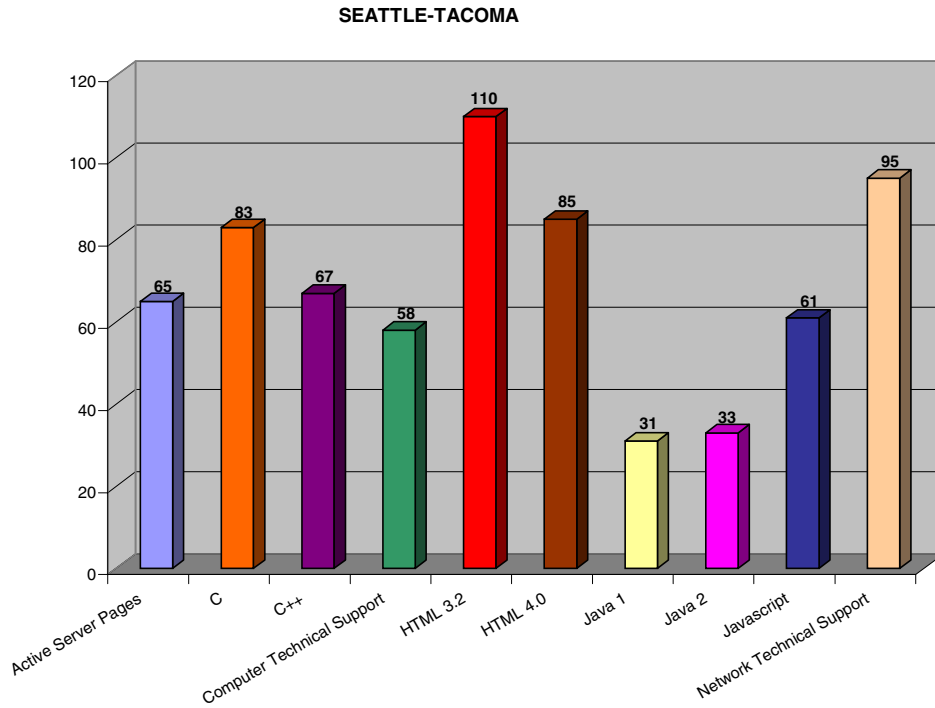
7. Atlanta, GA



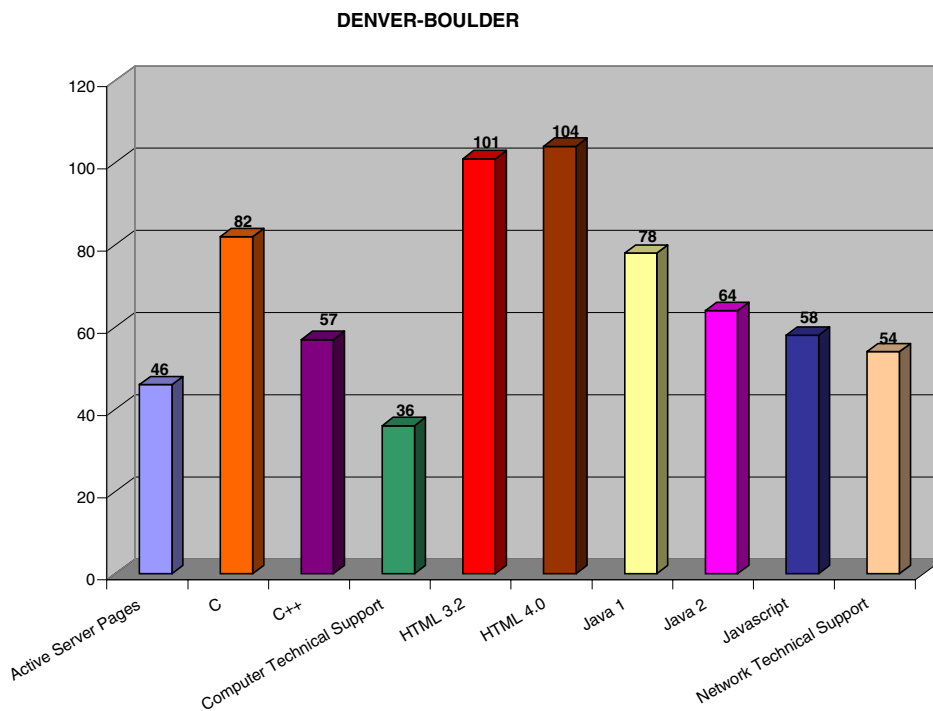
8. Detroit/Ann Arbor, MI



9. Seattle/Tacoma, WA



10. Denver/Boulder, CO



The Brainbench Global IT IQ Report provides an overview of countries and geographic regions. Specific country data that details the number of certifications obtained in each of the 30 areas covered is available from Brainbench.

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