

Global High Performance Computing Market: Size, Trend, Share, Opportunity Analysis & Forecast, 2014–2025

<https://marketpublishers.com/r/GD16E0555ABEN.html>

Date: February 2017

Pages: 0

Price: US\$ 3,619.00 (Single User License)

ID: GD16E0555ABEN

Abstracts

High performance is the use of super computers and parallel processing techniques for solving complex computational problems. It uses advanced techniques such as computer modeling, simulation and analysis. It has wide applications in various fields such as weather forecasting, molecular modeling, physical simulations, and quantum mechanics. Global high performance computing market is expected to grow at a CAGR of around 5% from 2017 to 2025.

Based on components, market is segmented into servers, storage, networking devices and software. Various services included in the report are consulting & design, integration & deployment, and training & outsourcing. By deployment model, it is divided into on-premises and cloud. Based on server price band, it is classified into USD 250,000-500,000 and above, and USD 249,999-100,000 and below. Various industry verticals included in the report are industrial manufacturing, life science, energy, chemical, government & defense, academic institutions, BFSI, media, gaming, transportation & logistics, retail, earth science, and others. Geographical breakdown and deep analysis of each of the aforesaid segments is included for North America, Europe, Asia-Pacific, and LAMEA.

MARKET DYNAMICS:

Drivers:

Higher processing power and faster storage solutions

Introduction of new technologies and solutions for embedded processors

Restraints:

High initial investment

MARKET PLAYERS:

The top players in the global high performance computing market include IBM Corporation, HP Development Company, LP., Intel Corporation, Microsoft Corporation, Cisco Systems, Inc., Advance Micro Devices, Inc., Bull Atos Technologies, Dell Inc., and Oracle Corporation.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Components Type

Servers

Storage

Networking Devices

Software

By Service

Consulting & Design

Integration & Deployment

Training & Outsourcing

By Deployment type

On-Premises

Cloud

By Server Price Band

USD 250,000-500,000 and above

USD 249,999-100,000 and below

By Industry Vertical

Industrial manufacturing

Life science

Energy

Chemical

Government and defense

Academic institutions

Banking, Financial Services, and Insurance (BFSI)

Media

Gaming

Transportation & logistics

Retail

Earth Science

Others

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Contents

1. EXECUTIVE SUMMARY

- 1.1. Key findings
- 1.2. Market attractiveness and trend analysis
- 1.3. Competitive landscape and recent industry development analysis

2. INTRODUCTION

- 2.1. Report description
- 2.2. Scope and definitions
- 2.3. Research methodology

3. MARKET LANDSCAPE

- 3.1. Growth drivers
 - 3.1.1. Impact analysis
- 3.2. Restraints and challenges
 - 3.2.1. Impact analysis
- 3.3. Porter's analysis
 - 3.3.1. Bargaining power of buyers
 - 3.3.2. Bargaining power of suppliers
 - 3.3.3. Threat of substitutes
 - 3.3.4. Industry rivalry
 - 3.3.5. Threat of new entrants
- 3.4. Global high performance computing market shares analysis, 2014-2025
 - 3.4.1. Global high performance computing market shares by component type, 2014-2025
 - 3.4.2. Global high performance computing market shares by service, 2014-2025
 - 3.4.3. Global high performance computing market shares by deployment type, 2014-2025
 - 3.4.4. Global high performance computing market shares by server price band, 2014-2025
 - 3.4.5. Global high performance computing market shares by industry vertical, 2014-2025
 - 3.4.6. Global high performance computing market shares by geography, 2014-2025

4. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY COMPONENT TYPE

4.1. Server

4.1.1. Historical market size by region, 2014-2016

4.1.2. Market forecast by region, 2017-2025

4.2. Storage

4.2.1. Historical market size by region, 2014-2016

4.2.2. Market forecast by region, 2017-2025

4.3. Networking devices

4.3.1. Historical market size by region, 2014-2016

4.3.2. Market forecast by region, 2017-2025

4.4. Software

4.4.1. Historical market size by region, 2014-2016

4.4.2. Market forecast by region, 2017-2025

5. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY SERVICE

5.1. Consulting & design

5.1.1. Historical market size by region, 2014-2016

5.1.2. Market forecast by region, 2017-2025

5.2. Integration & deployment

5.2.1. Historical market size by region, 2014-2016

5.2.2. Market forecast by region, 2017-2025

5.3. Training & outsourcing

5.3.1. Historical market size by region, 2014-2016

5.3.2. Market forecast by region, 2017-2025

6. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY DEPLOYMENT TYPE

6.1. Cloud

6.1.1. Historical market size by region, 2014-2016

6.1.2. Market forecast by region, 2017-2025

6.2. On-premise

6.2.1. Historical market size by region, 2014-2016

6.2.2. Market forecast by region, 2017-2025

7. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY SERVER PRICE BAND

7.1. USD 250,000-500,000 and above

- 7.1.1. Historical market size by region, 2014-2016
- 7.1.2. Market forecast by region, 2017-2025
- 7.2. USD 249,999-100,000 and below
 - 7.2.1. Historical market size by region, 2014-2016
 - 7.2.2. Market forecast by region, 2017-2025

8. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY INDUSTRY VERTICAL

- 8.1. Industrial manufacturing
 - 8.1.1. Historical market size by region, 2014-2016
 - 8.1.2. Market forecast by region, 2017-2025
- 8.2. Life science
 - 8.2.1. Historical market size by region, 2014-2016
 - 8.2.2. Market forecast by region, 2017-2025
- 8.3. Energy
 - 8.3.1. Historical market size by region, 2014-2016
 - 8.3.2. Market forecast by region, 2017-2025
- 8.4. Chemical
 - 8.4.1. Historical market size by region, 2014-2016
 - 8.4.2. Market forecast by region, 2017-2025
- 8.5. Government & defense
 - 8.5.1. Historical market size by region, 2014-2016
 - 8.5.2. Market forecast by region, 2017-2025
- 8.6. Academic institution
 - 8.6.1. Historical market size by region, 2014-2016
 - 8.6.2. Market forecast by region, 2017-2025
- 8.7. Banking, financial services, and insurance (BFSI)
 - 8.7.1. Historical market size by region, 2014-2016
 - 8.7.2. Market forecast by region, 2017-2025
- 8.8. Media
 - 8.8.1. Historical market size by region, 2014-2016
 - 8.8.2. Market forecast by region, 2017-2025
- 8.9. Gaming
 - 8.9.1. Historical market size by region, 2014-2016
 - 8.9.2. Market forecast by region, 2017-2025
- 8.10. Transportation & logistics
 - 8.10.1. Historical market size by region, 2014-2016
 - 8.10.2. Market forecast by region, 2017-2025

8.11. Retail

8.11.1. Historical market size by region, 2014-2016

8.11.2. Market forecast by region, 2017-2025

8.12. Earth science

8.12.1. Historical market size by region, 2014-2016

8.12.2. Market forecast by region, 2017-2025

8.13. Others

8.13.1. Historical market size by region, 2014-2016

8.13.2. Market forecast by region, 2017-2025

9. GLOBAL HIGH PERFORMANCE COMPUTING MARKET BY GEOGRAPHY

9.1. North America

9.1.1. U.S.

9.1.1.1. Historical market size, 2014-2016

9.1.1.2. Market forecast, 2017-2025

9.1.2. Canada

9.1.2.1. Historical market size, 2014-2016

9.1.2.2. Market forecast, 2017-2025

9.1.3. Mexico

9.1.3.1. Historical market size, 2014-2016

9.1.3.2. Market forecast, 2017-2025

9.2. Europe

9.2.1. UK

9.2.1.1. Historical market size, 2014-2016

9.2.1.2. Market forecast, 2017-2025

9.2.2. Germany

9.2.2.1. Historical market size, 2014-2016

9.2.2.2. Market forecast, 2017-2025

9.2.3. France

9.2.3.1. Historical market size, 2014-2016

9.2.3.2. Market forecast, 2017-2025

9.2.4. Spain

9.2.4.1. Historical market size, 2014-2016

9.2.4.2. Market forecast, 2017-2025

9.2.5. Italy

9.2.5.1. Historical market size, 2014-2016

9.2.5.2. Market forecast, 2017-2025

9.2.6. Rest of Europe

9.2.6.1. Historical market size, 2014-2016

9.2.6.2. Market forecast, 2017-2025

9.3. Asia-Pacific

9.3.1. China

9.3.1.1. Historical market size, 2014-2016

9.3.1.2. Market forecast, 2017-2025

9.3.2. Japan

9.3.2.1. Historical market size, 2014-2016

9.3.2.2. Market forecast, 2017-2025

9.3.3. India

9.3.3.1. Historical market size, 2014-2016

9.3.3.2. Market forecast, 2017-2025

9.3.4. Australia

9.3.4.1. Historical market size, 2014-2016

9.3.4.2. Market forecast, 2017-2025

9.3.5. South Korea

9.3.5.1. Historical market size, 2014-2016

9.3.5.2. Market forecast, 2017-2025

9.3.6. Rest of Asia-Pacific

9.3.6.1. Historical market size, 2014-2016

9.3.6.2. Market forecast, 2017-2025

9.4. LAMEA

9.4.1. Brazil

9.4.1.1. Historical market size, 2014-2016

9.4.1.2. Market forecast, 2017-2025

9.4.2. Saudi Arabia

9.4.2.1. Historical market size, 2014-2016

9.4.2.2. Market forecast, 2017-2025

9.4.3. South Africa

9.4.3.1. Historical market size, 2014-2016

9.4.3.2. Market forecast, 2017-2025

9.4.4. Rest of LAMEA

9.4.4.1. Historical market size, 2014-2016

9.4.4.2. Market forecast, 2017-2025

10. COMPANY PROFILES

10.1. IBM Corporation

10.1.1. Overview

- 10.1.2. Financials and business segments
- 10.1.3. Recent developments
- 10.2. Intel Corporation
 - 10.2.1. Overview
 - 10.2.2. Financials and business segments
 - 10.2.3. Recent developments
- 10.3. HP Development Company, L.P.
 - 10.3.1. Overview
 - 10.3.2. Financials and business segments
 - 10.3.3. Recent developments
- 10.4. Microsoft Corporation
 - 10.4.1. Overview
 - 10.4.2. Financials and business segments
 - 10.4.3. Recent developments
- 10.5. Cisco Systems, Inc.
 - 10.5.1. Overview
 - 10.5.2. Financials and business segments
 - 10.5.3. Recent developments
- 10.6. Advanced Micro Devices, Inc.
 - 10.6.1. Overview
 - 10.6.2. Financials and business segments
 - 10.6.3. Recent developments
- 10.7. Bull Atos Technologies
 - 10.7.1. Overview
 - 10.7.2. Financials and business segments
 - 10.7.3. Recent developments
- 10.8. Dell Inc.
 - 10.8.1. Overview
 - 10.8.2. Financials and business segments
 - 10.8.3. Recent developments
- 10.9. Oracle Corporation
 - 10.9.1. Overview
 - 10.9.2. Financials and business segments
 - 10.9.3. Recent developments

List Of Tables

LIST OF TABLES

Table 1. High Performance Computing Market Share, by Components Type, 2014-2025

Table 2. High Performance Computing Market Share, by Service, 2014-2025

Table 3. High Performance Computing Market Share, by Deployment Type, 2014-2025

Table 4. High Performance Computing Market Share, by Server Price Band, 2014-2025

Table 5. High Performance Computing Market Share, by Industry Vertical, 2014-2025

Table 6. High Performance Computing Market Share, by Region, 2014-2025

Table 7. High Performance Computing Market Value for Servers, by Region, 2017-2025, \$million

Table 8. High Performance Computing Market Value for Storage, by Region, 2017-2025, \$million

Table 9. High Performance Computing Market Value for Networking Devices, by Region, 2017-2025, \$million

Table 10. High Performance Computing Market Value for Software, by Region, 2017-2025, \$million

Table 11. High Performance Computing Market Value for Consulting & Design, by Region, 2017-2025, \$million

Table 12. High Performance Computing Market Value for Integration & Deployment, by Region, 2017-2025, \$million

Table 13. High Performance Computing Market Value for Training & Outsourcing, by Region, 2017-2025, \$million

Table 14. High Performance Computing Market Value for On-Premises, by Region, 2017-2025, \$million

Table 15. High Performance Computing Market Value for Cloud, by Region, 2017-2025, \$million

Table 16. High Performance Computing Market Value for USD 250,000-500,000 and above, by Region, 2017-2025, \$million

Table 17. High Performance Computing Market Value for USD 249,999-100,000 and below, by Region, 2017-2025, \$million

Table 18. High Performance Computing Market Value for Industrial manufacturing, by Region, 2017-2025, \$million

Table 19. High Performance Computing Market Value for Life Science, by Region, 2017-2025, \$million

Table 20. High Performance Computing Market Value for Energy, by Region, 2017-2025, \$million

Table 21. High Performance Computing Market Value for Chemical, by Region,

2017-2025, \$million

Table 22. High Performance Computing Market Value for Government & Defense, by Region, 2017-2025, \$million

Table 23. High Performance Computing Market Value for Academic Institutions, by Region, 2017-2025, \$million

Table 24. High Performance Computing Market Value for Banking, Financial Services, and Insurance (BFSI), by Region, 2017-2025, \$million

Table 25. High Performance Computing Market Value for Media, by Region, 2017-2025, \$million

Table 26. High Performance Computing Market Value for Gaming, by Region, 2017-2025, \$million

Table 27. High Performance Computing Market Value for Transportation & Logistics, by Region, 2017-2025, \$million

Table 28. High Performance Computing Market Value for Retail, by Region, 2017-2025, \$million

Table 29. High Performance Computing Market Value for Earth Science, by Region, 2017-2025, \$million

Table 30. High Performance Computing Market Value for Others, by Region, 2017-2025, \$million

Table 31. High Performance Computing Market Value for North America, by Country, 2014-2025, \$million

Table 32. High Performance Computing Market Value for North America, by Components Type, 2014-2025, \$million

Table 33. High Performance Computing Market Value for North America, by Service, 2014-2025, \$million

Table 34. High Performance Computing Market Value for North America, by Deployment Type, 2014-2025, \$million

Table 35. High Performance Computing Market Value for North America, by Server Price Band, 2014-2025, \$million

Table 36. High Performance Computing Market Value for North America, by Industry Vertical, 2014-2025, \$million

Table 37. High Performance Computing Market Value for Europe, by Country, 2014-2025, \$million

Table 38. High Performance Computing Market Value for Europe, by Components Type, 2014-2025, \$million

Table 39. High Performance Computing Market Value for Europe, by Service, 2014-2025, \$million

Table 40. High Performance Computing Market Value for Europe, by Deployment Type, 2014-2025, \$million

Table 41. High Performance Computing Market Value for Europe, by Server Price Band, 2014-2025, \$million

Table 42. High Performance Computing Market Value for Europe, by Industry Vertical, 2014-2025, \$million

Table 43. High Performance Computing Market Value for Asia-Pacific, by Country, 2014-2025, \$million

Table 44. High Performance Computing Market Value for Asia-Pacific, by Components Type, 2014-2025, \$million

Table 45. High Performance Computing Market Value for Asia-Pacific, by Service, 2014-2025, \$million

Table 46. High Performance Computing Market Value for Asia-Pacific, by Deployment Type, 2014-2025, \$million

Table 47. High Performance Computing Market Value for Asia-Pacific, by Server Price Band, 2014-2025, \$million

Table 48. High Performance Computing Market Value for Asia-Pacific, by Industry Vertical, 2014-2025, \$million

Table 49. High Performance Computing Market Value for LAMEA, by Country, 2014-2025, \$million

Table 50. High Performance Computing Market Value for LAMEA, by Components Type, 2014-2025, \$million

Table 51. High Performance Computing Market Value for LAMEA, by Service, 2014-2025, \$million

Table 52. High Performance Computing Market Value for LAMEA, by Deployment Type, 2014-2025, \$million

Table 53. High Performance Computing Market Value for LAMEA, by Server Price Band, 2014-2025, \$million

Table 54. High Performance Computing Market Value for LAMEA, by Industry Vertical, 2014-2025, \$million

Table 55. IBM Corporation - Company Snapshot

Table 56. Intel Corporation - Company Snapshot

Table 57. HP Development Company, L. P. - Company Snapshot

Table 58. Microsoft Corporation - Company Snapshot

Table 59. Cisco Systems, Inc. - Company Snapshot

Table 60. Advanced Micro Devices, Inc. - Company Snapshot

Table 61. Bull Atos Technologies - Company Snapshot

Table 62. Dell Inc. - Company Snapshot

Table 63. Oracle Corporation - Company Snapshot

List Of Figures

LIST OF FIGURES

Figure 1. High Performance Computing Servers Market Value, 2014-2016, \$million

Figure 2. High Performance Computing Storage Market Value, 2014-2016, \$million

Figure 3. High Performance Computing Networking Devices Market Value, 2014-2016, \$million

Figure 4. High Performance Computing Software Market Value, 2014-2016, \$million

Figure 5. High Performance Computing Consulting & Design Market Value, 2014-2016, \$million

Figure 6. High Performance Computing Integration & Deployment Market Value, 2014-2016, \$million

Figure 7. High Performance Computing Training & Outsourcing Market Value, 2014-2016, \$million

Figure 8. High Performance Computing On-Premises Market Value, 2014-2016, \$million

Figure 9. High Performance Computing Cloud Market Value, 2014-2016, \$million

Figure 10. High Performance Computing USD 250,000-500,000 and above Market Value, 2014-2016, \$million

Figure 11. High Performance Computing USD 249,999-100,000 and below Market Value, 2014-2016, \$million

Figure 12. High Performance Computing Industrial Manufacturing Market Value, 2014-2016, \$million

Figure 13. High Performance Computing Life Science Market Value, 2014-2016, \$million

Figure 14. High Performance Computing Energy Market Value, 2014-2016, \$million

Figure 15. High Performance Computing Chemical Market Value, 2014-2016, \$million

Figure 16. High Performance Computing Government & Defense Market Value, 2014-2016, \$million

Figure 17. High Performance Computing Academic Institutions Market Value, 2014-2016, \$million

Figure 18. High Performance Computing Banking, Financial Services, and Insurance (BFSI) Market Value, 2014-2016, \$million

Figure 19. High Performance Computing Media Market Value, 2014-2016, \$million

Figure 20. High Performance Computing Gaming Market Value, 2014-2016, \$million

Figure 21. High Performance Computing Transportation & Logistics Market Value, 2014-2016, \$million

Figure 22. High Performance Computing Retail Market Value, 2014-2016, \$million

Figure 23. High Performance Computing Earth Science Market Value, 2014-2016,

\$million

Figure 24. High Performance Computing Others Market Value, 2014-2016, \$million

Figure 25. High Performance Computing Others Market Value, 2014-2016, \$million

Figure 26. High Performance Computing: U.S. Market Value, 2014-2016, \$million

Figure 27. High Performance Computing: U.S. Market Value, 2017-2025, \$million

Figure 28. High Performance Computing: Canada Market Value, 2014-2016, \$million

Figure 29. High Performance Computing: Canada Market Value, 2017-2025, \$million

Figure 30. High Performance Computing: Mexico Market Value, 2014-2016, \$million

Figure 31. High Performance Computing: Mexico Market Value, 2017-2025, \$million

Figure 32. High Performance Computing: UK Market Value, 2014-2016, \$million

Figure 33. High Performance Computing: UK Market Value, 2017-2025, \$million

Figure 34. High Performance Computing: Germany Market Value, 2014-2016, \$million

Figure 35. High Performance Computing: Germany Market Value, 2017-2025, \$million

Figure 36. High Performance Computing: France Market Value, 2014-2016, \$million

Figure 37. High Performance Computing: France Market Value, 2017-2025, \$million

Figure 38. High Performance Computing: Spain Market Value, 2014-2016, \$million

Figure 39. High Performance Computing: Spain Market Value, 2017-2025, \$million

Figure 40. High Performance Computing: Italy Market Value, 2014-2016, \$million

Figure 41. High Performance Computing: Italy Market Value, 2017-2025, \$million

Figure 42. High Performance Computing: Rest of Europe Market Value, 2014-2016, \$million

Figure 43. High Performance Computing: Rest of Europe Market Value, 2017-2025, \$million

Figure 44. High Performance Computing: China Market Value, 2014-2016, \$million

Figure 45. High Performance Computing: China Market Value, 2017-2025, \$million

Figure 46. High Performance Computing: Japan Market Value, 2014-2016, \$million

Figure 47. High Performance Computing: Japan Market Value, 2017-2025, \$million

Figure 48. High Performance Computing: India Market Value, 2014-2016, \$million

Figure 49. High Performance Computing: India Market Value, 2017-2025, \$million

Figure 50. High Performance Computing: Australia Market Value, 2014-2016, \$million

Figure 51. High Performance Computing: Australia Market Value, 2017-2025, \$million

Figure 52. High Performance Computing: South Korea Market Value, 2014-2016, \$million

Figure 53. High Performance Computing: South Korea Market Value, 2017-2025, \$million

Figure 54. High Performance Computing: Rest of Asia-Pacific Market Value, 2014-2016, \$million

Figure 55. High Performance Computing: Rest of Asia-Pacific Market Value, 2017-2025, \$million

Figure 56. High Performance Computing: Brazil Market Value, 2014-2016, \$million

Figure 57. High Performance Computing: Brazil Market Value, 2017-2025, \$million

Figure 58. High Performance Computing: Saudi Arabia Market Value, 2014-2016, \$million

Figure 59. High Performance Computing: Saudi Arabia Market Value, 2017-2025, \$million

Figure 60. High Performance Computing: South Africa Market Value, 2014-2016, \$million

Figure 61. High Performance Computing: South Africa Market Value, 2017-2025, \$million

Figure 62. High Performance Computing: Rest of LAMEA Market Value, 2014-2016, \$million

Figure 63. High Performance Computing: Rest of LAMEA Market Value, 2017-2025, \$million

COMPANIES MENTIONED

The top players in the global high performance computing market include IBM Corporation, HP Development Company, LP., Intel Corporation, Microsoft Corporation, Cisco Systems, Inc., Advance Micro Devices, Inc., Bull Atos Technologies, Dell Inc., and Oracle Corporation.

I would like to order

Product name: Global High Performance Computing Market: Size, Trend, Share, Opportunity Analysis & Forecast, 2014–2025

Product link: <https://marketpublishers.com/r/GD16E0555ABEN.html>

Price: US\$ 3,619.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD16E0555ABEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

