

Cloud High Performance Computing (HPC) Market by Service Type (HPC IAAS, HPC PAAS, Data Organization and Workload Management, Clustering Software and Analytics Tool, Professional Service and Managed Service) - Global Forecast to 2020

https://marketpublishers.com/r/C4FE0809F9AEN.html

Date: November 2015

Pages: 121

Price: US\$ 5,650.00 (Single User License)

ID: C4FE0809F9AEN

Abstracts

Complex applications management is a major factor driving the growth of cloud HPC market

The cloud High Performance Computing (HPC) market size is estimated to grow from USD 4.37 billion in 2015 to USD 10.83 billion by 2020, at an estimated compound annual growth rate (CAGR) of 19.9% from 2015 to 2020. The cloud HPC market is driven by factors, such as complex applications management, emergence of big data market, and adoption of pay-as-you-go model.

HPC Infrastructure as a Service (laaS) to gain maximum traction during the forecast period (2015 to 2020)

The high performance computing infrastructure as a service type is estimated to contribute the largest market share duing the forecast period. However, the managed service type is expected to gain traction and grow at the highest CAGR in the next five years. The cloud HPC market is also projected to witness growth in media, entertainment and online gaming, and design and engineering, with government and academia and research end user contributing the largest market share during the forecast period. The hybrid cloud deployment model is expected to grow with the highest growth rate from 2015 to 2020. However, public cloud is expected to contribute the largest market share among the cloud deployment model during the forecast period.



In the process of determining and verifying the market size for several segments and sub-segments gathered through secondary research, extensive primary interviews were conducted with key people in Tier 1 (35%), Tier 2 (45%) and Tier 3 (20%) companies. The interviews were conducted with various key people such as C-level (35%), Director level (25%) and other executives (40%) operating in the cloud HPC marketplace. The primary interviews were conducted worldwide covering regions such as North America (45%), Europe (20%), Asia Pacific (30%), and RoW (05%).

The faster deployment, increased flexibility, scalability, and high adoption rate in SMBs offers cloud HPC vendors tremendous opportunites in the next five years.

The major cloud HPC companies profiled in the report are as follows:

- 1. IBM Corporation
- 2. Microsoft Corporation
- 3. Google
- 4. Dell
- 5. Amazon Web Services
- 6. Penguin Computing
- 7. Sabalcore Computing
- 8. Adaptive Computing
- 9. Gompute
- 10. Univa Corporation

The report will help the market leaders/new entrants in the cloud HPC market in the following ways:

- 1. This report segments the cloud HPC market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the subsegments across different end users and regions.
- 2. The report helps stakeholders to understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.
- 3. This report will help stakeholders to better understand the competitors and gain more insights to better their position in the business. The competitive landscape section includes new product launches, partnerships, agreements, collaborations, and mergers and acquisitions.



Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED IN THE REPORT
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTION

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE MARKET OPPORTUNITIES IN THE CLOUD HPC MARKET
- 4.2 CLOUD HPC MARKET: MARKET SHARE OF THE TOP FOUR SERVICE TYPES AND END USERS
- 4.3 LIFECYCLE ANALYSIS, BY REGION
- 4.4 MARKET INVESTMENT SCENARIO

5 MARKET OVERVIEW



- 5.1 INTRODUCTION
- **5.2 MARKET EVOLUTION**
- 5.3 MARKET DYNAMICS
 - 5.3.1 DRIVERS
 - 5.3.1.1 Complex applications management
 - 5.3.1.2 Emergence of big data market
 - 5.3.1.3 Adoption of pay-as-you-go model
 - 5.3.2 RESTRAINTS
- 5.3.2.1 Increased cost during transition from on-premise to cloud-based HPC services
 - 5.3.2.2 Risk of information loss
 - 5.3.3 OPPORTUNITIES
 - 5.3.3.1 Faster deployment, increased flexibility, and scalability
 - 5.3.3.2 High adoption rate in SMBs
 - 5.3.4 CHALLENGES
 - 5.3.4.1 Lack of security
 - 5.3.4.2 Stringent and time-consuming regulatory policies

6 INDUSTRY TRENDS

- **6.1 INTRODUCTION**
- 6.2 VALUE CHAIN ANALYSIS
- 6.3 ECOSYSTEM
- 6.4 STRATEGIC BENCHMARKING

7 CLOUD HPC MARKET ANALYSIS, BY SERVICE TYPE

- 7.1 INTRODUCTION
- 7.2 HPC IAAS
- 7.3 HPC PAAS
- 7.4 DATA ORGANIZATION AND WORKLOAD MANAGEMENT
- 7.5 CLUSTERING SOFTWARE AND ANALYTICS TOOL
- 7.6 PROFESSIONAL SERVICES
- 7.7 MANAGED SERVICES

8 CLOUD HPC MARKET ANALYSIS, BY DEPLOYMENT MODEL

8.1 INTRODUCTION



- 8.2 PUBLIC CLOUD
- 8.3 PRIVATE CLOUD
- 8.4 HYBRID CLOUD

9 CLOUD HPC MARKET ANALYSIS, BY ORGANIZATION SIZE

- 9.1 INTRODUCTION
- 9.2 SMALL AND MEDIUM BUSINESS
- 9.3 LARGE ENTERPRISE

10 CLOUD HPC MARKET ANALYSIS, BY END USER

- **10.1 INTRODUCTION**
- 10.2 ACADEMIA AND RESEARCH
- 10.3 BIOSCIENCES
- 10.4 DESIGN AND ENGINEERING
- 10.5 FINANCIAL SERVICES
- **10.6 GOVERNMENT**
- 10.7 MANUFACTURING
- 10.8 MEDIA, ENTERTAINMENT AND ONLINE GAMING
- 10.9 WEATHER AND ENVIRONMENT
- **10.10 OTHERS**

11 GEOGRAPHIC ANALYSIS

- 11.1 INTRODUCTION
- 11.2 NORTH AMERICA
- 11.3 EUROPE
- 11.4 ASIA-PACIFIC (APAC)
- 11.5 REST OF WORLD

12 COMPETITIVE LANDSCAPE

- 12.1 OVERVIEW
- 12.2 COMPETITIVE SITUATION AND TRENDS
- 12.3 NEW PRODUCT LAUNCHES
- 12.4 MERGERS AND ACQUISITIONS
- 12.5 PARTNERSHIPS/ COLLABORATIONS/ NEW SYNERGIES/ AGREEMENTS
- 12.6 BUSINESS EXPANSIONS



13 COMPANY PROFILES

13.1 INTRODUCTION

(Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View)*

- 13.2 INTERNATIONAL BUSINESS MACHINES CORPORATION
- 13.3 MICROSOFT CORPORATION
- 13.4 GOOGLE, INC.
- 13.5 DELL, INC.
- 13.6 AMAZON WEB SERVICES
- 13.7 PENGUIN COMPUTING
- 13.8 SABALCORE COMPUTING
- 13.9 ADAPTIVE COMPUTING
- **13.10 GOMPUTE**
- 13.11 UNIVA CORPORATION

*Details on Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

14 APPENDIX

- 14.1 EXCERPTS FROM INDUSTRY EXPERTS
- 14.2 DISCUSSION GUIDE
- 14.3 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 14.4 AVAILABLE CUSTOMIZATION
- 14.5 RELATED REPORTS



List Of Tables

LIST OF TABLES

Table 1 CLOUD HPC MARKET SIZE AND GROWTH RATE, 2013–2020 (USD BILLION, Y-O-Y %)

Table 2 CLOUD HPC MARKET: SUMMARY OF DRIVERS

Table 3 CLOUD HPC MARKET: SUMMARY OF RESTRAINTS

Table 4 CLOUD HPC MARKET: SUMMARY OF OPPORTUNITIES

Table 5 CLOUD HPC MARKET: SUMMARY OF CHALLENGES

Table 6 CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 7 HPC IAAS: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 8 HPC PAAS: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 9 DATA ORGANIZATION AND WORKLOAD MANAGEMENT: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 10 CLUSTERING SOFTWARE AND ANALYTICS TOOL: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 11 PROFESSIONAL SERVICES: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 12 MANAGED SERVICES: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 13 CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 14 PUBLIC CLOUD: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 15 PRIVATE CLOUD: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 16 HYBRID CLOUD: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 17 CLOUD HPC MARKET SIZE, BY ORGANIZATION SIZE, 2013-2020 (USD MILLION)

Table 18 SMALL AND MEDIUM BUSINESS: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 19 LARGE ENTERPRISE: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 20 CLOUD HPC MARKET SIZE, BY END USER, 2013-2020 (USD MILLION)
Table 21 ACADEMIA AND RESEARCH: CLOUD HPC MARKET SIZE, BY SERVICE



TYPE, 2013-2020 (USD MILLION)

Table 22 ACADEMIA AND RESEARCH: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 23 ACADEMIA AND RESEARCH: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 24 BIOSCIENCES: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 25 BIOSCIENCES: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 26 BIOSCIENCES: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 27 DESIGN AND ENGINEERING: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 28 DESIGN AND ENGINEERING: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 29 DESIGN AND ENGINEERING: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 30 FINANCIAL SERVICES: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 31 FINANCIAL SERVICES: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 32 FINANCIAL SERVICES: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 33 GOVERNMENT: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 34 GOVERNMENT: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 35 GOVERNMENT: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 36 MANUFACTURING: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 37 MANUFACTURING: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 38 MANUFACTURING: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 39 MEDIA, ENTERTAINMENT AND ONLINE GAMING: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 40 MEDIA, ENTERTAINMENT AND ONLINE GAMING: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)



Table 41 MEDIA, ENTERTAINMENT AND ONLINE GAMING: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 42 WEATHER AND ENVIRONMENT: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 43 WEATHER AND ENVIRONMENT: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 44 WEATHER AND ENVIRONMENT: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 45 OTHERS: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013-2020 (USD MILLION)

Table 46 OTHERS: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013-2020 (USD MILLION)

Table 47 OTHERS: CLOUD HPC MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

Table 48 CLOUD HPC MARKET SIZE, BY REGION, 2015–2020 (USD MILLION)

Table 49 NORTH AMERICA: CLOUD HPC MARKET SIZE, BY END USER, 2013–2020 (USD MILLION)

Table 50 NORTH AMERICA: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013–2020 (USD MILLION)

Table 51 NORTH AMERICA: CLOUD HPC MARKET SIZE, BY ORGANIZATION SIZE, 2013–2020 (USD MILLION)

Table 52 NORTH AMERICA: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013–2020 (USD MILLION)

Table 53 EUROPE: CLOUD HPC MARKET SIZE, BY END USER, 2013–2020 (USD MILLION)

Table 54 EUROPE: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013–2020 (USD MILLION)

Table 55 EUROPE: CLOUD HPC MARKET SIZE, BY ORGANIZATION SIZE, 2013–2020 (USD MILLION)

Table 56 EUROPE: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013–2020 (USD MILLION)

Table 57 ASIA-PACIFIC: CLOUD HPC MARKET SIZE, BY END USER, 2013–2020 (USD MILLION)

Table 58 ASIA-PACIFIC: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013–2020 (USD MILLION)

Table 59 ASIA-PACIFIC: CLOUD HPC MARKET SIZE, BY ORGANIZATION SIZE, 2013–2020 (USD MILLION)

Table 60 ASIA-PACIFIC: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013–2020 (USD MILLION)



Table 61 REST OF WORLD: CLOUD HPC MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

Table 62 REST OF WORLD: CLOUD HPC MARKET SIZE, BY END USER, 2013–2020 (USD MILLION)

Table 63 REST OF WORLD: CLOUD HPC MARKET SIZE, BY SERVICE TYPE, 2013–2020 (USD MILLION)

Table 64 REST OF WORLD: CLOUD HPC MARKET SIZE, BY ORGANIZATION SIZE, 2013–2020 (USD MILLION)

Table 65 REST OF WORLD: CLOUD HPC MARKET SIZE, BY DEPLOYMENT MODEL, 2013–2020 (USD MILLION)

Table 66 NEW PRODUCT LAUNCHES, 2015

Table 67 MERGERS AND ACQUISITIONS, 2013-2014

Table 68 PARTNERSHIPS/COLLABORATIONS/NEW SYNERGIES, 2014-2015

Table 69 BUSINESS EXPANSIONS, 2014-2015



List Of Figures

LIST OF FIGURES

Figure 1 CLOUD HPC MARKET: RESEARCH DESIGN

Figure 2 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE,

DESIGNATION, AND REGION

Figure 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

Figure 5 MARKET BREAKDOWN AND DATA TRIANGULATION

Figure 6 ASSUMPTIONS OF THE RESEARCH STUDY

Figure 7 CLOUD HPC MARKET SIZE, 2015 - 2020 (USD BILLION)

Figure 8 CLOUD HPC MARKET, BY SERVICE TYPE (2015 VS. 2020)

Figure 9 CLOUD HPC MARKET, BY DEPLOYMENT MODEL (2015-2020)

Figure 10 NORTH AMERICA IS EXPECTED TO HOLD THE LARGEST MARKET

SHARE OF THE CLOUD HPC MARKET IN 2015

Figure 11 LUCRATIVE GROWTH PROSPECTS IN THE CLOUD HPC MARKET DUE TO THE EMERGENCE OF BIG DATA MARKET

Figure 12 CLOUD HPC MARKET: MARKET SHARE OF SERVICE TYPES AND END USERS

Figure 13 LIFECYCLE ANALYSIS, BY REGION (2015): ASIA-PACIFIC IS EXPECTED

TO ENTER THE GROWTH PHASE IN THE COMING YEARS

Figure 14 MARKET INVESTMENT SCENARIO: CLOUD HPC

Figure 15 EVOLUTION OF CLOUD HPC

Figure 16 MARKET DYNAMICS

Figure 17 CLOUD HPC MARKET: VALUE CHAIN ANALYSIS

Figure 18 CLOUD HPC MARKET: ECOSYSTEM

Figure 19 STRATEGIC BENCHMARKING: CLOUD HPC MARKET

Figure 20 HPC IAAS ESTIMATED TO HAVE THE LARGEST MARKET SIZE DURING THE FORECAST PERIOD

Figure 21 HYBRID CLOUD IS EXPECTED TO EXHIBIT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 22 LARGE ENTERPRISES SEGMENT IS ESTIMATED TO HAVE THE

LARGEST MARKET SIZE DURING THE FORECAST PERIOD

Figure 23 MEDIA, ENTERTAINMENT AND ONLINE GAMING INDUSTRY IS

EXPECTED TO EXHIBIT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 24 NORTH AMERICA IS ESTIMATED TO HAVE THE LARGEST MARKET SIZE DURING THE FORECAST PERIOD

Figure 25 ASIA-PACIFIC: AN ATTRACTIVE DESTINATION FOR THE CLOUD HPC



MARKET, 2015-2020

Figure 26 NORTH AMERICA SNAPSHOT

Figure 27 ASIA-PACIFIC MARKET SNAPSHOT

Figure 28 COMPANIES ADOPTED NEW PRODUCT LAUNCHES AS THE KEY

GROWTH STRATEGY FROM 2013 TO 2015

Figure 29 MARKET EVALUATION FRAMEWORK

Figure 30 BATTLE FOR MARKET SHARE: NEW PRODUCT DEVELOPMENT AND

ENHANCEMENT IS THE KEY STRATEGY

Figure 31 GEOGRAPHIC REVENUE MIX OF TOP MARKET PLAYERS

Figure 32 INTERNATIONAL BUSINESS MACHINES CORPORATION: COMPANY

SNAPSHOT

Figure 33 INTERNATIONAL BUSINESS MACHINES CORPORATION: SWOT

ANALYSIS

Figure 34 MICROSOFT CORPORATION: COMPANY SNAPSHOT

Figure 35 MICROSOFT CORPORATION: SWOT ANALYSIS

Figure 36 GOOGLE, INC.: COMPANY SNAPSHOT

Figure 37 GOOGLE, INC.: SWOT ANALYSIS

Figure 38 DELL, INC.: SWOT ANALYSIS

Figure 39 AMAZON WEB SERVICES: SWOT ANALYSIS



I would like to order

Product name: Cloud High Performance Computing (HPC) Market by Service Type (HPC IAAS, HPC

PAAS, Data Organization and Workload Management, Clustering Software and Analytics

Tool, Professional Service and Managed Service) - Global Forecast to 2020

Product link: https://marketpublishers.com/r/C4FE0809F9AEN.html

Price: US\$ 5,650.00 (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/C4FE0809F9AEN.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
	Custumer 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