

Global High-Performance Computing Processors for Scientific Computing Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G418CD840E07EN.html>

Date: August 2026

Pages: 165

Price: US\$ 4,480.00 (Single User License)

ID: G418CD840E07EN

Abstracts

The global High-Performance Computing Processors for Scientific Computing market size is expected to reach \$ 44553 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

High-performance computing processors for scientific computing are processor chips and processor modules designed to execute large-scale numerical simulations, engineering analysis, scientific modeling, and other compute-intensive research workloads. The principal product forms include high-performance server CPUs, general-purpose GPUs, vector processors, many-core processors, dataflow accelerators, wafer-scale processors, reconfigurable computing devices, and specialized scientific accelerators. These processors typically provide substantial double-precision floating-point, vector, matrix, or massively parallel computing capability, supported by high-bandwidth memory, scalable interconnects, cache-coherent architectures, low-latency communication, and cluster-level scaling. Their software environments generally support C, C++, Fortran, MPI, OpenMP, OpenACC, SYCL, numerical libraries, and domain-specific scientific applications. Major use cases include computational fluid dynamics, finite-element analysis, molecular dynamics, weather and climate modeling, seismic processing, materials science, computational chemistry, nuclear physics, life sciences, financial modeling, digital twins, and AI for Science. The research scope focuses on processor products that serve as core execution engines for scientific and engineering computing and that have a verifiable product form, computing capability, and supporting software ecosystem.

Scientific computing processors should not be treated as a synonym for GPUs or AI accelerators. The market consists of high-performance server CPUs, general-purpose

GPUs, vector engines, many-core processors, dataflow architectures, wafer-scale devices, high-end FPGAs, and a limited number of domain-oriented accelerators. Competitive performance is increasingly determined by sustained application throughput, memory bandwidth, energy efficiency, inter-node scaling, software maturity, and the cost of porting scientific codes, rather than by peak floating-point performance alone. The leading exascale-class systems illustrate this heterogeneous structure: AMD CPUs and accelerators power El Capitan and Frontier, while Aurora combines Intel Xeon CPU Max and Data Center GPU Max products. Fujitsu's A64FX and NEC's vector processors demonstrate that differentiated architectures can remain commercially and technically relevant for selected memory-intensive or vectorizable workloads.

Demand is broadening beyond government laboratories and academic supercomputing centers. Industrial research and development, cloud HPC, life sciences, weather and climate modeling, energy exploration, computational chemistry, and digital engineering are becoming more consistent sources of processor demand. Automotive, aerospace, and manufacturing users require increasingly large CFD, finite-element, crash simulation, optimization, and digital-twin workloads. Energy customers rely on seismic processing, reservoir simulation, and molecular modeling, while life-science users are expanding molecular dynamics, genomics, protein modeling, and computational drug discovery. AI for Science is creating an additional growth layer by combining physics-based simulation with surrogate models, data assimilation, scientific foundation models, and accelerated search. This convergence favors processors that support both high-precision numerical computing and efficient mixed-precision or matrix operations. AI methods are expected to complement rather than eliminate high-precision simulation, because validation, conservation laws, numerical stability, and regulatory requirements continue to require conventional scientific computation.

Government policy and strategic investment will remain unusually important to the industry. The United States continues to fund leadership-class systems and advanced computing research while applying export controls to selected high-end processors. Europe is using EuroHPC, the European Processor Initiative, SiPearl, and the DARE program to establish greater autonomy in CPUs, vector accelerators, and RISC-V-based computing. China is investing in domestic server CPUs, general-purpose GPUs, DCUs, compilers, mathematical libraries, and regional computing infrastructure. Japan is supporting post-Fugaku computing and energy-efficient processor development, while India is pursuing domestic RISC-V and HPC processor programs. Over the next several years, competition will shift further from individual chip specifications toward full-stack capability encompassing processors, memory, scale-up and scale-out interconnects,

compilers, numerical libraries, developer tools, and application migration. Access to advanced process technology, high-bandwidth memory, packaging capacity, and sustained capital will determine which emerging suppliers progress from prototypes to commercially relevant deployments.

Report Scope

This report studies the global High-Performance Computing Processors for Scientific Computing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Performance Computing Processors for Scientific Computing and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-Performance Computing Processors for Scientific Computing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Performance Computing Processors for Scientific Computing total production and demand, 2021-2032, (Million Units)

Global High-Performance Computing Processors for Scientific Computing total production value, 2021-2032, (USD Million)

Global High-Performance Computing Processors for Scientific Computing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global High-Performance Computing Processors for Scientific Computing consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: High-Performance Computing Processors for Scientific Computing domestic production, consumption, key domestic manufacturers and share

Global High-Performance Computing Processors for Scientific Computing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global High-Performance Computing Processors for Scientific Computing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global High-Performance Computing Processors for Scientific Computing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global High-Performance Computing Processors

for Scientific Computing market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA Corporation, Advanced Micro Devices, Inc., Intel Corporation, Huawei Technologies Co., Ltd., International Business Machines Corporation, SoftBank Group Corp., Fujitsu Limited, NEC Corporation, Hygon Information Technology Co., Ltd., Altera Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Performance Computing Processors for Scientific Computing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-Performance Computing Processors for Scientific Computing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Performance Computing Processors for Scientific Computing Market,
Segmentation by Type:

High-Performance CPU

Other Specialized Processor

Global High-Performance Computing Processors for Scientific Computing Market,
Segmentation by Numerical Precision:

FP64-Optimized Computing

FP32-Centric Computing

Low-Precision Scientific AI Computing

Other Precision Types

Global High-Performance Computing Processors for Scientific Computing Market,
Segmentation by Memory Architecture:

HBM-Centric Architecture

DDR-Centric Architecture

Other Memory Architectures

Global High-Performance Computing Processors for Scientific Computing Market,
Segmentation by Application:

Engineering Simulation and CAE

Weather, Climate and Earth Science

Life Science and Molecular Computing

Computational Chemistry and Materials Science

Energy and Fundamental Physics

Mathematical and Financial Computing

AI for Science

Other Scientific Applications

Companies Profiled:

NVIDIA Corporation

Advanced Micro Devices, Inc.

Intel Corporation

Huawei Technologies Co., Ltd.

International Business Machines Corporation

SoftBank Group Corp.

Fujitsu Limited

NEC Corporation

Hygon Information Technology Co., Ltd.

Altera Corporation

Cerebras Systems Inc.

Moore Threads Technology Co., Ltd.

MetaX Integrated Circuits (Shanghai) Co., Ltd.

Phytium Technology Co., Ltd.

Shanghai Zhaoxin Semiconductor Co., Ltd.

Loongson Technology Corporation Limited

Shanghai Iluvatar CoreX Semiconductor Co., Ltd.

Preferred Networks, Inc.

Achronix Semiconductor Corporation

NextSilicon Ltd.

PEZY Computing K.K.

SiPearl SAS

Key Questions Answered:

1. How big is the global High-Performance Computing Processors for Scientific Computing market?
2. What is the demand of the global High-Performance Computing Processors for Scientific Computing market?
3. What is the year over year growth of the global High-Performance Computing Processors for Scientific Computing market?
4. What is the production and production value of the global High-Performance Computing Processors for Scientific Computing market?
5. Who are the key producers in the global High-Performance Computing Processors for Scientific Computing market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 High-Performance Computing Processors for Scientific Computing Introduction

1.2 World High-Performance Computing Processors for Scientific Computing Supply & Forecast

1.2.1 World High-Performance Computing Processors for Scientific Computing Production Value (2021 & 2025 & 2032)

1.2.2 World High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.2.3 World High-Performance Computing Processors for Scientific Computing Pricing Trends (2021-2032)

1.3 World High-Performance Computing Processors for Scientific Computing Production by Region (Based on Production Site)

1.3.1 World High-Performance Computing Processors for Scientific Computing Production Value by Region (2021-2032)

1.3.2 World High-Performance Computing Processors for Scientific Computing Production by Region (2021-2032)

1.3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Region (2021-2032)

1.3.4 North America High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.3.5 China High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.3.6 Japan High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.3.7 Europe High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.3.8 Israel High-Performance Computing Processors for Scientific Computing Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 High-Performance Computing Processors for Scientific Computing Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 High-Performance Computing Processors for Scientific Computing Major Market Trends

2 DEMAND SUMMARY

2.1 World High-Performance Computing Processors for Scientific Computing Demand (2021-2032)

2.2 World High-Performance Computing Processors for Scientific Computing Consumption by Region

2.2.1 World High-Performance Computing Processors for Scientific Computing Consumption by Region (2021-2026)

2.2.2 World High-Performance Computing Processors for Scientific Computing Consumption Forecast by Region (2027-2032)

2.3 United States High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.4 China High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.5 Europe High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.6 Japan High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.7 South Korea High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.8 ASEAN High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

2.9 India High-Performance Computing Processors for Scientific Computing Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High-Performance Computing Processors for Scientific Computing Production Value by Manufacturer (2021-2026)

3.2 World High-Performance Computing Processors for Scientific Computing Production by Manufacturer (2021-2026)

3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Manufacturer (2021-2026)

3.4 High-Performance Computing Processors for Scientific Computing Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High-Performance Computing Processors for Scientific Computing Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High-Performance Computing Processors for Scientific Computing in 2025

3.5.3 Global Concentration Ratios (CR8) for High-Performance Computing Processors for Scientific Computing in 2025

3.6 High-Performance Computing Processors for Scientific Computing Market: Overall Company Footprint Analysis

3.6.1 High-Performance Computing Processors for Scientific Computing Market: Region Footprint

3.6.2 High-Performance Computing Processors for Scientific Computing Market: Company Product Type Footprint

3.6.3 High-Performance Computing Processors for Scientific Computing Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: High-Performance Computing Processors for Scientific Computing Production Value Comparison

4.1.1 United States VS China: High-Performance Computing Processors for Scientific Computing Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High-Performance Computing Processors for Scientific Computing Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High-Performance Computing Processors for Scientific Computing Production Comparison

4.2.1 United States VS China: High-Performance Computing Processors for Scientific Computing Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High-Performance Computing Processors for Scientific Computing Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High-Performance Computing Processors for Scientific Computing Consumption Comparison

4.3.1 United States VS China: High-Performance Computing Processors for Scientific Computing Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High-Performance Computing Processors for Scientific Computing Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High-Performance Computing Processors for Scientific Computing Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High-Performance Computing Processors for Scientific Computing Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production (2021-2026)

4.5 China Based High-Performance Computing Processors for Scientific Computing Manufacturers and Market Share

4.5.1 China Based High-Performance Computing Processors for Scientific Computing Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value (2021-2026)

4.5.3 China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production (2021-2026)

4.6 Rest of World Based High-Performance Computing Processors for Scientific Computing Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-Performance Computing Processors for Scientific Computing Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-Performance Computing Processors for Scientific Computing Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 High-Performance CPU

5.2.2 Other Specialized Processor

5.3 Market Segment by Type

5.3.1 World High-Performance Computing Processors for Scientific Computing Production by Type (2021-2032)

5.3.2 World High-Performance Computing Processors for Scientific Computing Production Value by Type (2021-2032)

5.3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMERICAL PRECISION

6.1 World High-Performance Computing Processors for Scientific Computing Market Size Overview by Numerical Precision: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Numerical Precision

6.2.1 FP64-Optimized Computing

6.2.2 FP32-Centric Computing

6.2.3 Low-Precision Scientific AI Computing

6.2.4 Other Precision Types

6.3 Market Segment by Numerical Precision

6.3.1 World High-Performance Computing Processors for Scientific Computing Production by Numerical Precision (2021-2032)

6.3.2 World High-Performance Computing Processors for Scientific Computing Production Value by Numerical Precision (2021-2032)

6.3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Numerical Precision (2021-2032)

7 MARKET ANALYSIS BY MEMORY ARCHITECTURE

7.1 World High-Performance Computing Processors for Scientific Computing Market Size Overview by Memory Architecture: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Memory Architecture

7.2.1 HBM-Centric Architecture

7.2.2 DDR-Centric Architecture

7.2.3 Other Memory Architectures

7.3 Market Segment by Memory Architecture

7.3.1 World High-Performance Computing Processors for Scientific Computing Production by Memory Architecture (2021-2032)

7.3.2 World High-Performance Computing Processors for Scientific Computing Production Value by Memory Architecture (2021-2032)

7.3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Memory Architecture (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High-Performance Computing Processors for Scientific Computing Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Engineering Simulation and CAE

8.2.2 Weather, Climate and Earth Science

- 8.2.3 Life Science and Molecular Computing
- 8.2.4 Computational Chemistry and Materials Science
- 8.2.5 Energy and Fundamental Physics
- 8.2.6 Mathematical and Financial Computing
- 8.2.7 AI for Science
- 8.2.8 Other Scientific Applications
- 8.3 Market Segment by Application
 - 8.3.1 World High-Performance Computing Processors for Scientific Computing Production by Application (2021-2032)
 - 8.3.2 World High-Performance Computing Processors for Scientific Computing Production Value by Application (2021-2032)
 - 8.3.3 World High-Performance Computing Processors for Scientific Computing Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 NVIDIA Corporation
 - 9.1.1 NVIDIA Corporation Details
 - 9.1.2 NVIDIA Corporation Major Business
 - 9.1.3 NVIDIA Corporation High-Performance Computing Processors for Scientific Computing Product and Services
 - 9.1.4 NVIDIA Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 NVIDIA Corporation Recent Developments/Updates
 - 9.1.6 NVIDIA Corporation Competitive Strengths & Weaknesses
- 9.2 Advanced Micro Devices, Inc.
 - 9.2.1 Advanced Micro Devices, Inc. Details
 - 9.2.2 Advanced Micro Devices, Inc. Major Business
 - 9.2.3 Advanced Micro Devices, Inc. High-Performance Computing Processors for Scientific Computing Product and Services
 - 9.2.4 Advanced Micro Devices, Inc. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Advanced Micro Devices, Inc. Recent Developments/Updates
 - 9.2.6 Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses
- 9.3 Intel Corporation
 - 9.3.1 Intel Corporation Details
 - 9.3.2 Intel Corporation Major Business
 - 9.3.3 Intel Corporation High-Performance Computing Processors for Scientific

Computing Product and Services

9.3.4 Intel Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Intel Corporation Recent Developments/Updates

9.3.6 Intel Corporation Competitive Strengths & Weaknesses

9.4 Huawei Technologies Co., Ltd.

9.4.1 Huawei Technologies Co., Ltd. Details

9.4.2 Huawei Technologies Co., Ltd. Major Business

9.4.3 Huawei Technologies Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.4.4 Huawei Technologies Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Huawei Technologies Co., Ltd. Recent Developments/Updates

9.4.6 Huawei Technologies Co., Ltd. Competitive Strengths & Weaknesses

9.5 International Business Machines Corporation

9.5.1 International Business Machines Corporation Details

9.5.2 International Business Machines Corporation Major Business

9.5.3 International Business Machines Corporation High-Performance Computing Processors for Scientific Computing Product and Services

9.5.4 International Business Machines Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 International Business Machines Corporation Recent Developments/Updates

9.5.6 International Business Machines Corporation Competitive Strengths & Weaknesses

9.6 SoftBank Group Corp.

9.6.1 SoftBank Group Corp. Details

9.6.2 SoftBank Group Corp. Major Business

9.6.3 SoftBank Group Corp. High-Performance Computing Processors for Scientific Computing Product and Services

9.6.4 SoftBank Group Corp. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SoftBank Group Corp. Recent Developments/Updates

9.6.6 SoftBank Group Corp. Competitive Strengths & Weaknesses

9.7 Fujitsu Limited

9.7.1 Fujitsu Limited Details

9.7.2 Fujitsu Limited Major Business

9.7.3 Fujitsu Limited High-Performance Computing Processors for Scientific

Computing Product and Services

9.7.4 Fujitsu Limited High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Fujitsu Limited Recent Developments/Updates

9.7.6 Fujitsu Limited Competitive Strengths & Weaknesses

9.8 NEC Corporation

9.8.1 NEC Corporation Details

9.8.2 NEC Corporation Major Business

9.8.3 NEC Corporation High-Performance Computing Processors for Scientific Computing Product and Services

9.8.4 NEC Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 NEC Corporation Recent Developments/Updates

9.8.6 NEC Corporation Competitive Strengths & Weaknesses

9.9 Hygon Information Technology Co., Ltd.

9.9.1 Hygon Information Technology Co., Ltd. Details

9.9.2 Hygon Information Technology Co., Ltd. Major Business

9.9.3 Hygon Information Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.9.4 Hygon Information Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Hygon Information Technology Co., Ltd. Recent Developments/Updates

9.9.6 Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses

9.10 Altera Corporation

9.10.1 Altera Corporation Details

9.10.2 Altera Corporation Major Business

9.10.3 Altera Corporation High-Performance Computing Processors for Scientific Computing Product and Services

9.10.4 Altera Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Altera Corporation Recent Developments/Updates

9.10.6 Altera Corporation Competitive Strengths & Weaknesses

9.11 Cerebras Systems Inc.

9.11.1 Cerebras Systems Inc. Details

9.11.2 Cerebras Systems Inc. Major Business

9.11.3 Cerebras Systems Inc. High-Performance Computing Processors for Scientific Computing Product and Services

9.11.4 Cerebras Systems Inc. High-Performance Computing Processors for Scientific

Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Cerebras Systems Inc. Recent Developments/Updates

9.11.6 Cerebras Systems Inc. Competitive Strengths & Weaknesses

9.12 Moore Threads Technology Co., Ltd.

9.12.1 Moore Threads Technology Co., Ltd. Details

9.12.2 Moore Threads Technology Co., Ltd. Major Business

9.12.3 Moore Threads Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.12.4 Moore Threads Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Moore Threads Technology Co., Ltd. Recent Developments/Updates

9.12.6 Moore Threads Technology Co., Ltd. Competitive Strengths & Weaknesses

9.13 MetaX Integrated Circuits (Shanghai) Co., Ltd.

9.13.1 MetaX Integrated Circuits (Shanghai) Co., Ltd. Details

9.13.2 MetaX Integrated Circuits (Shanghai) Co., Ltd. Major Business

9.13.3 MetaX Integrated Circuits (Shanghai) Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.13.4 MetaX Integrated Circuits (Shanghai) Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 MetaX Integrated Circuits (Shanghai) Co., Ltd. Recent Developments/Updates

9.13.6 MetaX Integrated Circuits (Shanghai) Co., Ltd. Competitive Strengths & Weaknesses

9.14 Phytium Technology Co., Ltd.

9.14.1 Phytium Technology Co., Ltd. Details

9.14.2 Phytium Technology Co., Ltd. Major Business

9.14.3 Phytium Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.14.4 Phytium Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Phytium Technology Co., Ltd. Recent Developments/Updates

9.14.6 Phytium Technology Co., Ltd. Competitive Strengths & Weaknesses

9.15 Shanghai Zhaoxin Semiconductor Co., Ltd.

9.15.1 Shanghai Zhaoxin Semiconductor Co., Ltd. Details

9.15.2 Shanghai Zhaoxin Semiconductor Co., Ltd. Major Business

9.15.3 Shanghai Zhaoxin Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.15.4 Shanghai Zhaoxin Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Shanghai Zhaoxin Semiconductor Co., Ltd. Recent Developments/Updates

9.15.6 Shanghai Zhaoxin Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

9.16 Loongson Technology Corporation Limited

9.16.1 Loongson Technology Corporation Limited Details

9.16.2 Loongson Technology Corporation Limited Major Business

9.16.3 Loongson Technology Corporation Limited High-Performance Computing Processors for Scientific Computing Product and Services

9.16.4 Loongson Technology Corporation Limited High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Loongson Technology Corporation Limited Recent Developments/Updates

9.16.6 Loongson Technology Corporation Limited Competitive Strengths & Weaknesses

9.17 Shanghai Iluvatar CoreX Semiconductor Co., Ltd.

9.17.1 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Details

9.17.2 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Major Business

9.17.3 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

9.17.4 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Recent Developments/Updates

9.17.6 Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

9.18 Preferred Networks, Inc.

9.18.1 Preferred Networks, Inc. Details

9.18.2 Preferred Networks, Inc. Major Business

9.18.3 Preferred Networks, Inc. High-Performance Computing Processors for Scientific Computing Product and Services

9.18.4 Preferred Networks, Inc. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Preferred Networks, Inc. Recent Developments/Updates

9.18.6 Preferred Networks, Inc. Competitive Strengths & Weaknesses

9.19 Achronix Semiconductor Corporation

- 9.19.1 Achronix Semiconductor Corporation Details
- 9.19.2 Achronix Semiconductor Corporation Major Business
- 9.19.3 Achronix Semiconductor Corporation High-Performance Computing Processors for Scientific Computing Product and Services
- 9.19.4 Achronix Semiconductor Corporation High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Achronix Semiconductor Corporation Recent Developments/Updates
- 9.19.6 Achronix Semiconductor Corporation Competitive Strengths & Weaknesses
- 9.20 NextSilicon Ltd.
- 9.20.1 NextSilicon Ltd. Details
- 9.20.2 NextSilicon Ltd. Major Business
- 9.20.3 NextSilicon Ltd. High-Performance Computing Processors for Scientific Computing Product and Services
- 9.20.4 NextSilicon Ltd. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 NextSilicon Ltd. Recent Developments/Updates
- 9.20.6 NextSilicon Ltd. Competitive Strengths & Weaknesses
- 9.21 PEZY Computing K.K.
- 9.21.1 PEZY Computing K.K. Details
- 9.21.2 PEZY Computing K.K. Major Business
- 9.21.3 PEZY Computing K.K. High-Performance Computing Processors for Scientific Computing Product and Services
- 9.21.4 PEZY Computing K.K. High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 PEZY Computing K.K. Recent Developments/Updates
- 9.21.6 PEZY Computing K.K. Competitive Strengths & Weaknesses
- 9.22 SiPearl SAS
- 9.22.1 SiPearl SAS Details
- 9.22.2 SiPearl SAS Major Business
- 9.22.3 SiPearl SAS High-Performance Computing Processors for Scientific Computing Product and Services
- 9.22.4 SiPearl SAS High-Performance Computing Processors for Scientific Computing Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 SiPearl SAS Recent Developments/Updates
- 9.22.6 SiPearl SAS Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 High-Performance Computing Processors for Scientific Computing Industry Chain
- 10.2 High-Performance Computing Processors for Scientific Computing Upstream Analysis
 - 10.2.1 High-Performance Computing Processors for Scientific Computing Core Raw Materials
 - 10.2.2 Main Manufacturers of High-Performance Computing Processors for Scientific Computing Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High-Performance Computing Processors for Scientific Computing Production Mode
- 10.6 High-Performance Computing Processors for Scientific Computing Procurement Model
- 10.7 High-Performance Computing Processors for Scientific Computing Industry Sales Model and Sales Channels
 - 10.7.1 High-Performance Computing Processors for Scientific Computing Sales Model
 - 10.7.2 High-Performance Computing Processors for Scientific Computing Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-Performance Computing Processors for Scientific Computing Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-Performance Computing Processors for Scientific Computing Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-Performance Computing Processors for Scientific Computing Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Region (2021-2026)

Table 5. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Region (2027-2032)

Table 6. World High-Performance Computing Processors for Scientific Computing Production by Region (2021-2026) & (Million Units)

Table 7. World High-Performance Computing Processors for Scientific Computing Production by Region (2027-2032) & (Million Units)

Table 8. World High-Performance Computing Processors for Scientific Computing Production Market Share by Region (2021-2026)

Table 9. World High-Performance Computing Processors for Scientific Computing Production Market Share by Region (2027-2032)

Table 10. World High-Performance Computing Processors for Scientific Computing Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High-Performance Computing Processors for Scientific Computing Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High-Performance Computing Processors for Scientific Computing Major Market Trends

Table 13. World High-Performance Computing Processors for Scientific Computing Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World High-Performance Computing Processors for Scientific Computing Consumption by Region (2021-2026) & (Million Units)

Table 15. World High-Performance Computing Processors for Scientific Computing Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World High-Performance Computing Processors for Scientific Computing Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-Performance Computing Processors for Scientific Computing Producers in 2025

Table 18. World High-Performance Computing Processors for Scientific Computing

Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key High-Performance Computing Processors for Scientific Computing Producers in 2025

Table 20. World High-Performance Computing Processors for Scientific Computing Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High-Performance Computing Processors for Scientific Computing Company Evaluation Quadrant

Table 22. World High-Performance Computing Processors for Scientific Computing Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-Performance Computing Processors for Scientific Computing Production Site of Key Manufacturer

Table 24. High-Performance Computing Processors for Scientific Computing Market: Company Product Type Footprint

Table 25. High-Performance Computing Processors for Scientific Computing Market: Company Product Application Footprint

Table 26. High-Performance Computing Processors for Scientific Computing Competitive Factors

Table 27. High-Performance Computing Processors for Scientific Computing New Entrant and Capacity Expansion Plans

Table 28. High-Performance Computing Processors for Scientific Computing Mergers & Acquisitions Activity

Table 29. United States VS China High-Performance Computing Processors for Scientific Computing Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-Performance Computing Processors for Scientific Computing Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China High-Performance Computing Processors for Scientific Computing Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based High-Performance Computing Processors for Scientific Computing Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share (2021-2026)

Table 37. China Based High-Performance Computing Processors for Scientific

Computing Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share (2021-2026)

Table 42. Rest of World Based High-Performance Computing Processors for Scientific Computing Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share (2021-2026)

Table 47. World High-Performance Computing Processors for Scientific Computing Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-Performance Computing Processors for Scientific Computing Production by Type (2021-2026) & (Million Units)

Table 49. World High-Performance Computing Processors for Scientific Computing Production by Type (2027-2032) & (Million Units)

Table 50. World High-Performance Computing Processors for Scientific Computing Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-Performance Computing Processors for Scientific Computing Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-Performance Computing Processors for Scientific Computing Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High-Performance Computing Processors for Scientific Computing Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High-Performance Computing Processors for Scientific Computing Production Value by Numerical Precision, (USD Million), 2021 & 2025 & 2032

Table 55. World High-Performance Computing Processors for Scientific Computing Production by Numerical Precision (2021-2026) & (Million Units)

Table 56. World High-Performance Computing Processors for Scientific Computing Production by Numerical Precision (2027-2032) & (Million Units)

Table 57. World High-Performance Computing Processors for Scientific Computing Production Value by Numerical Precision (2021-2026) & (USD Million)

Table 58. World High-Performance Computing Processors for Scientific Computing Production Value by Numerical Precision (2027-2032) & (USD Million)

Table 59. World High-Performance Computing Processors for Scientific Computing Average Price by Numerical Precision (2021-2026) & (US\$/Unit)

Table 60. World High-Performance Computing Processors for Scientific Computing Average Price by Numerical Precision (2027-2032) & (US\$/Unit)

Table 61. World High-Performance Computing Processors for Scientific Computing Production Value by Memory Architecture, (USD Million), 2021 & 2025 & 2032

Table 62. World High-Performance Computing Processors for Scientific Computing Production by Memory Architecture (2021-2026) & (Million Units)

Table 63. World High-Performance Computing Processors for Scientific Computing Production by Memory Architecture (2027-2032) & (Million Units)

Table 64. World High-Performance Computing Processors for Scientific Computing Production Value by Memory Architecture (2021-2026) & (USD Million)

Table 65. World High-Performance Computing Processors for Scientific Computing Production Value by Memory Architecture (2027-2032) & (USD Million)

Table 66. World High-Performance Computing Processors for Scientific Computing Average Price by Memory Architecture (2021-2026) & (US\$/Unit)

Table 67. World High-Performance Computing Processors for Scientific Computing Average Price by Memory Architecture (2027-2032) & (US\$/Unit)

Table 68. World High-Performance Computing Processors for Scientific Computing Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High-Performance Computing Processors for Scientific Computing Production by Application (2021-2026) & (Million Units)

Table 70. World High-Performance Computing Processors for Scientific Computing Production by Application (2027-2032) & (Million Units)

Table 71. World High-Performance Computing Processors for Scientific Computing Production Value by Application (2021-2026) & (USD Million)

Table 72. World High-Performance Computing Processors for Scientific Computing Production Value by Application (2027-2032) & (USD Million)

Table 73. World High-Performance Computing Processors for Scientific Computing Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High-Performance Computing Processors for Scientific Computing Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. NVIDIA Corporation Basic Information, Manufacturing Base and Competitors

Table 76. NVIDIA Corporation Major Business

Table 77. NVIDIA Corporation High-Performance Computing Processors for Scientific

Computing Product and Services

Table 78. NVIDIA Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. NVIDIA Corporation Recent Developments/Updates

Table 80. NVIDIA Corporation Competitive Strengths & Weaknesses

Table 81. Advanced Micro Devices, Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Advanced Micro Devices, Inc. Major Business

Table 83. Advanced Micro Devices, Inc. High-Performance Computing Processors for Scientific Computing Product and Services

Table 84. Advanced Micro Devices, Inc. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Advanced Micro Devices, Inc. Recent Developments/Updates

Table 86. Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses

Table 87. Intel Corporation Basic Information, Manufacturing Base and Competitors

Table 88. Intel Corporation Major Business

Table 89. Intel Corporation High-Performance Computing Processors for Scientific Computing Product and Services

Table 90. Intel Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Intel Corporation Recent Developments/Updates

Table 92. Intel Corporation Competitive Strengths & Weaknesses

Table 93. Huawei Technologies Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Huawei Technologies Co., Ltd. Major Business

Table 95. Huawei Technologies Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

Table 96. Huawei Technologies Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Huawei Technologies Co., Ltd. Recent Developments/Updates

Table 98. Huawei Technologies Co., Ltd. Competitive Strengths & Weaknesses

Table 99. International Business Machines Corporation Basic Information, Manufacturing Base and Competitors

Table 100. International Business Machines Corporation Major Business

Table 101. International Business Machines Corporation High-Performance Computing

Processors for Scientific Computing Product and Services

Table 102. International Business Machines Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. International Business Machines Corporation Recent Developments/Updates

Table 104. International Business Machines Corporation Competitive Strengths & Weaknesses

Table 105. SoftBank Group Corp. Basic Information, Manufacturing Base and Competitors

Table 106. SoftBank Group Corp. Major Business

Table 107. SoftBank Group Corp. High-Performance Computing Processors for Scientific Computing Product and Services

Table 108. SoftBank Group Corp. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SoftBank Group Corp. Recent Developments/Updates

Table 110. SoftBank Group Corp. Competitive Strengths & Weaknesses

Table 111. Fujitsu Limited Basic Information, Manufacturing Base and Competitors

Table 112. Fujitsu Limited Major Business

Table 113. Fujitsu Limited High-Performance Computing Processors for Scientific Computing Product and Services

Table 114. Fujitsu Limited High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Fujitsu Limited Recent Developments/Updates

Table 116. Fujitsu Limited Competitive Strengths & Weaknesses

Table 117. NEC Corporation Basic Information, Manufacturing Base and Competitors

Table 118. NEC Corporation Major Business

Table 119. NEC Corporation High-Performance Computing Processors for Scientific Computing Product and Services

Table 120. NEC Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. NEC Corporation Recent Developments/Updates

Table 122. NEC Corporation Competitive Strengths & Weaknesses

Table 123. Hygon Information Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Hygon Information Technology Co., Ltd. Major Business

Table 125. Hygon Information Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

Table 126. Hygon Information Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Hygon Information Technology Co., Ltd. Recent Developments/Updates

Table 128. Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Altera Corporation Basic Information, Manufacturing Base and Competitors

Table 130. Altera Corporation Major Business

Table 131. Altera Corporation High-Performance Computing Processors for Scientific Computing Product and Services

Table 132. Altera Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Altera Corporation Recent Developments/Updates

Table 134. Altera Corporation Competitive Strengths & Weaknesses

Table 135. Cerebras Systems Inc. Basic Information, Manufacturing Base and Competitors

Table 136. Cerebras Systems Inc. Major Business

Table 137. Cerebras Systems Inc. High-Performance Computing Processors for Scientific Computing Product and Services

Table 138. Cerebras Systems Inc. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Cerebras Systems Inc. Recent Developments/Updates

Table 140. Cerebras Systems Inc. Competitive Strengths & Weaknesses

Table 141. Moore Threads Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Moore Threads Technology Co., Ltd. Major Business

Table 143. Moore Threads Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

Table 144. Moore Threads Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Moore Threads Technology Co., Ltd. Recent Developments/Updates

Table 146. Moore Threads Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 147. MetaX Integrated Circuits (Shanghai) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. MetaX Integrated Circuits (Shanghai) Co., Ltd. Major Business
Table 149. MetaX Integrated Circuits (Shanghai) Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services
Table 150. MetaX Integrated Circuits (Shanghai) Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. MetaX Integrated Circuits (Shanghai) Co., Ltd. Recent Developments/Updates
Table 152. MetaX Integrated Circuits (Shanghai) Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Phytium Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Phytium Technology Co., Ltd. Major Business
Table 155. Phytium Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services
Table 156. Phytium Technology Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Phytium Technology Co., Ltd. Recent Developments/Updates
Table 158. Phytium Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Shanghai Zhaoxin Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Shanghai Zhaoxin Semiconductor Co., Ltd. Major Business
Table 161. Shanghai Zhaoxin Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services
Table 162. Shanghai Zhaoxin Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Shanghai Zhaoxin Semiconductor Co., Ltd. Recent Developments/Updates
Table 164. Shanghai Zhaoxin Semiconductor Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Loongson Technology Corporation Limited Basic Information, Manufacturing Base and Competitors
Table 166. Loongson Technology Corporation Limited Major Business
Table 167. Loongson Technology Corporation Limited High-Performance Computing Processors for Scientific Computing Product and Services
Table 168. Loongson Technology Corporation Limited High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Loongson Technology Corporation Limited Recent Developments/Updates

Table 170. Loongson Technology Corporation Limited Competitive Strengths & Weaknesses

Table 171. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Major Business

Table 173. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

Table 174. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Recent Developments/Updates

Table 176. Shanghai Iluvatar CoreX Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Preferred Networks, Inc. Basic Information, Manufacturing Base and Competitors

Table 178. Preferred Networks, Inc. Major Business

Table 179. Preferred Networks, Inc. High-Performance Computing Processors for Scientific Computing Product and Services

Table 180. Preferred Networks, Inc. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Preferred Networks, Inc. Recent Developments/Updates

Table 182. Preferred Networks, Inc. Competitive Strengths & Weaknesses

Table 183. Achronix Semiconductor Corporation Basic Information, Manufacturing Base and Competitors

Table 184. Achronix Semiconductor Corporation Major Business

Table 185. Achronix Semiconductor Corporation High-Performance Computing Processors for Scientific Computing Product and Services

Table 186. Achronix Semiconductor Corporation High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Achronix Semiconductor Corporation Recent Developments/Updates

Table 188. Achronix Semiconductor Corporation Competitive Strengths & Weaknesses

Table 189. NextSilicon Ltd. Basic Information, Manufacturing Base and Competitors

Table 190. NextSilicon Ltd. Major Business

Table 191. NextSilicon Ltd. High-Performance Computing Processors for Scientific Computing Product and Services

Table 192. NextSilicon Ltd. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. NextSilicon Ltd. Recent Developments/Updates

Table 194. NextSilicon Ltd. Competitive Strengths & Weaknesses

Table 195. PEZY Computing K.K. Basic Information, Manufacturing Base and Competitors

Table 196. PEZY Computing K.K. Major Business

Table 197. PEZY Computing K.K. High-Performance Computing Processors for Scientific Computing Product and Services

Table 198. PEZY Computing K.K. High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. PEZY Computing K.K. Recent Developments/Updates

Table 200. PEZY Computing K.K. Competitive Strengths & Weaknesses

Table 201. SiPearl SAS Basic Information, Manufacturing Base and Competitors

Table 202. SiPearl SAS Major Business

Table 203. SiPearl SAS High-Performance Computing Processors for Scientific Computing Product and Services

Table 204. SiPearl SAS High-Performance Computing Processors for Scientific Computing Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. SiPearl SAS Recent Developments/Updates

Table 206. SiPearl SAS Competitive Strengths & Weaknesses

Table 207. Global Key Players of High-Performance Computing Processors for Scientific Computing Upstream (Raw Materials)

Table 208. Global High-Performance Computing Processors for Scientific Computing Typical Customers

Table 209. High-Performance Computing Processors for Scientific Computing Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-Performance Computing Processors for Scientific Computing Picture

Figure 2. World High-Performance Computing Processors for Scientific Computing Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-Performance Computing Processors for Scientific Computing Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 5. World High-Performance Computing Processors for Scientific Computing Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Region (2021-2032)

Figure 7. World High-Performance Computing Processors for Scientific Computing Production Market Share by Region (2021-2032)

Figure 8. North America High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 9. China High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 10. Japan High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 11. Europe High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 12. Israel High-Performance Computing Processors for Scientific Computing Production (2021-2032) & (Million Units)

Figure 13. High-Performance Computing Processors for Scientific Computing Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 16. World High-Performance Computing Processors for Scientific Computing Consumption Market Share by Region (2021-2032)

Figure 17. United States High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 18. China High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 19. Europe High-Performance Computing Processors for Scientific Computing

Consumption (2021-2032) & (Million Units)

Figure 20. Japan High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 21. South Korea High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 23. India High-Performance Computing Processors for Scientific Computing Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of High-Performance Computing Processors for Scientific Computing by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for High-Performance Computing Processors for Scientific Computing Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for High-Performance Computing Processors for Scientific Computing Markets in 2025

Figure 27. United States VS China: High-Performance Computing Processors for Scientific Computing Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High-Performance Computing Processors for Scientific Computing Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High-Performance Computing Processors for Scientific Computing Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share 2025

Figure 31. China Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share 2025

Figure 32. Rest of World Based Manufacturers High-Performance Computing Processors for Scientific Computing Production Market Share 2025

Figure 33. World High-Performance Computing Processors for Scientific Computing Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Type in 2025

Figure 35. High-Performance CPU

Figure 36. Other Specialized Processor

Figure 37. World High-Performance Computing Processors for Scientific Computing Production Market Share by Type (2021-2032)

Figure 38. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Type (2021-2032)

Figure 39. World High-Performance Computing Processors for Scientific Computing

Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World High-Performance Computing Processors for Scientific Computing Production Value by Numerical Precision, (USD Million), 2021 & 2025 & 2032

Figure 41. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Numerical Precision in 2025

Figure 42. FP64-Optimized Computing

Figure 43. FP32-Centric Computing

Figure 44. Low-Precision Scientific AI Computing

Figure 45. Other Precision Types

Figure 46. World High-Performance Computing Processors for Scientific Computing Production Market Share by Numerical Precision (2021-2032)

Figure 47. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Numerical Precision (2021-2032)

Figure 48. World High-Performance Computing Processors for Scientific Computing Average Price by Numerical Precision (2021-2032) & (US\$/Unit)

Figure 49. World High-Performance Computing Processors for Scientific Computing Production Value by Memory Architecture, (USD Million), 2021 & 2025 & 2032

Figure 50. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Memory Architecture in 2025

Figure 51. HBM-Centric Architecture

Figure 52. DDR-Centric Architecture

Figure 53. Other Memory Architectures

Figure 54. World High-Performance Computing Processors for Scientific Computing Production Market Share by Memory Architecture (2021-2032)

Figure 55. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Memory Architecture (2021-2032)

Figure 56. World High-Performance Computing Processors for Scientific Computing Average Price by Memory Architecture (2021-2032) & (US\$/Unit)

Figure 57. World High-Performance Computing Processors for Scientific Computing Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World High-Performance Computing Processors for Scientific Computing Production Value Market Share by Application in 2025

Figure 59. Engineering Simulation and CAE

Figure 60. Weather, Climate and Earth Science

Figure 61. Life Science and Molecular Computing

Figure 62. Computational Chemistry and Materials Science

Figure 63. Energy and Fundamental Physics

Figure 64. Mathematical and Financial Computing

Figure 65. AI for Science

Figure 66. Other Scientific Applications

Figure 67. Other Scientific Applications

Figure 68. World High-Performance Computing Processors for Scientific Computing
Production Market Share by Application (2021-2032)

Figure 69. World High-Performance Computing Processors for Scientif

I would like to order

Product name: Global High-Performance Computing Processors for Scientific Computing Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G418CD840E07EN.html>

Price: US\$ 4,480.00 (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/G418CD840E07EN.html>