ICS 35.020
CCS L 60

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 44269-2024

Information technology-High performance computing system-Technical requirement of management and monitor platform

信息技术 高性能计算系统 管理监控平台技术要求

Issued on: August 23, 2024 **Implemented on: March 1, 2025**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Technical Committee for Information Technology Standardization (SAC/TC 28).

This document was drafted by: Inspur Electronic Information Industry Co., Ltd., East China

Branch of China Electronics Standardization Institute, Xiamen Min Shenzhen Hexun Huagu Information Technology Co., Ltd., Powerleader Computer Systems Co., Ltd., China Electronics Technology Technology Standardization Research Institute, Jinan Inspur Data Technology Co., Ltd., Beijing CESI Technology Development Co., Ltd., Dajie Intelligent Technology (Guangdong East) Co., Ltd., China Science and Technology (Beijing) Technology Co., Ltd., National Energy Conservation Center, Lanzhou University of Technology, China Communications Service Consulting Design Research Institute Co., Ltd., Qinghai Provincial Development and Reform Commission, Neusoft Group Co., Ltd., China Unicom Qinghai Branch Company, Inspur Computer Technology Co., Ltd., China Telecom Co., Ltd. Qinghai Branch, China Civil Aviation Information Network Co., Ltd.

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Company, Hebei Jiaotong Intelligent Technology Co., Ltd., Beijing Fenghuo Wanjia Technology Co., Ltd., Henan Hujiajia Health Technology Co., Ltd., Hubei Huazhong Electric Power Technology Development Co., Ltd., Nanjing Liancheng Technology Development Co., Ltd., Shenzhen Dianchuang Technology Co., Ltd., Shenzhen Zhixian Future Industrial Software Co., Ltd., Beijing Tonghe Shiyi Telecommunications Science and Technology Research Institute Co., Ltd., Shuquan Zhixun (Beijing) Technology Co., Ltd., Hangzhou Shuotai Technology Co., Ltd., Tiangu Information Security System (Shenzhen) Co., Ltd., Shenzhen Beiliande Industrial Co., Ltd.

Co., Ltd., ZTE (Wenzhou) Rail Communications Technology Co., Ltd., and Migu Digital Media Co., Ltd.

The main drafters of this document are: Liu Chang, Zhang Junhua, Lin Wenbin, Chen Guangyan, Li Ruijie, Liu Yu, Di Heliang, Gao Shuchen, Ma Hongchao, Yan Wang, Song Guixiang, Jin Chi, Zhao Shuai, Guo Kai, Lu Lu, Fan Chaoyang, Xie Hui, Lin Li, Yang Shaopeng, Chen Wei, Shi Jiandong, Liu Haishan, Huang Zhigang, Gao Hong, Xiao Tianli, Zhang Li, Ran Yongming, Gong Weifeng, Zhao Yong, Zhu Chen, Zhao Jinsheng, Li Xinning, Yu Hao, Yu Qingyou, Zhang Zhili, Cai Xingbo, Yang Wei, Tian Ye, Yu Ruixing, Tian Yanyan, Cui Yunqi, Yang Xuehua, Zhang Jinyong, Xu Ting, Li Pengzhi, Li Guang, Zheng Changshui, Meng Xiangbao, Zhong Tongqing, Ling Fei, Chen Yanling, Zhu Jun, Wu Yan, Liu Yu, Shan Kaiyuan, Jia Bing, Jiang Feihu, Jin Binbin, Yu Hang.

Information Technology High Performance Computing Systems Technical requirements for management and monitoring platform

1 Scope

This document specifies the requirements for computing devices, storage devices, network devices, intelligent cabinets, power environment, and security equipment in high-performance computing systems.

Technical requirements for the system platform for managing and monitoring infrastructure such as facilities.

This document applies to the management and monitoring platform of high-performance computing systems with 10,000 or more computing units (hereinafter referred to as The design, development, implementation and operation and maintenance of the "Platform"). Reference use of high-performance computing systems with less than 10,000 computing units.

2 Normative references

GB/T 41779-2022

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 High performance computing system

A data center with super computing power consisting of 10,000 or more computing units and related infrastructure.

3.2 management and monitor platform of high performance computing system

A software system that manages, monitors, and controls the infrastructure that supports the operation of high-performance computing systems.

3.3 computing unit

The smallest physical unit in a computing device that is responsible for performing computing tasks.

4 Abbreviations

The following abbreviations apply to this document. ACL. Access Control List BBU. Battery Backup Unit BIOS. Basic Input Output System BMC. Baseboard Management Controller CPU. Central Processing Unit FC. Fibre Channel GPU. Graphics Processing Unit HBA. Host Bus Adapter