

Software - China (H/A)

Updated CPU/OS requirements for gov't PC procurement; potential boost for Xinchuang

Industry Overview

Updated PC procurement requirements unveiled

Central Government Procurement Center published the updated standards for centralized procurement of desktop and portable computers for gov't agencies (2024 version) on 11 Mar (Mon), which is applicable to government agencies (including directly affiliated institutions & departments) and parties above county-level. Besides, security and reliability assessment are required for CPU and OS (Exhibit 2). Compared to the 2023 version, key additional criteria include 1) budget: up to Rmb5k / Rmb7k for desktop / portable computers respectively; 2) CPU: choose among LoongSon, Phytium, Zhaoxin, Huawei Kunpeng, Hygon and ShenWei, which are all categorized as Class I by China Information Technology Security Evaluation Center (CITSEC) in 2023 (Exhibit 4), or Intel / AMD (subject to additional requirements); and (3) OS: need to pre-install Kylin / Tongxin UOS / Zhongke Fangde / other OS that meet security and reliability assessment requirement, or Windows 10 CMIT Government Edition (for Intel / AMD CPU only).

We think this new standard shortlists the key domestic suppliers for the first time, showing potential acceleration of IT self-sufficiency for CPU/OS/software within gov't related departments. Apart from OS companies (Exhibit 1), we believe other verticals in software space can also benefit from self-sufficiency for gov't and SoE clients, including database, office software (i.e. Kingsoft Corporation), cybersecurity (i.e. Venustech and DBAPPSecurity), and ERP (i.e. Kingdee, Yonyou).

Potential Xinchuang acceleration; SoE demand stronger

Heading towards the end of the 14th Fifth Year Plan, software import substitution (Xinchuang) is likely to accelerate in 2024-25E, boosted by favorable policy support, in our view. Overall, we see stronger software Xinchuang demand of SoEs (especially those from critical infrastructure industries) than gov't, given they have relatively sufficient budget. Previously, the No. 79 Document (79 号文) issued by State-owned Assets Supervision and Administration Commission (SASAC) in Sep 2022 requires (1) full replacement (全面替换) of OA, portal, mailbox and etc, (2) all those in need are replaced (应替就替) for strategic decision, ERP, risk management and CRM, (3) all those could be should be replaced (能替就替) for production & manufacturing, and R&D system by 2027, for 98 central enterprises and SoEs, per Sina News. As such, 2024-2027 will be the critical period to complete the targets.

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Equity China Software

Daley Li, CFA >> Research Analyst Merrill Lynch (Hong Kong) +852 3508 5365 daley.li2@bofa.com

Harry Zhuang >> Research Analyst Merrill Lynch (Hong Kong) +852 3508 7998 harry.zhuang@bofa.com

CPU: central processing unit

OS: operating system

CRM: customer relationship management

CMIT: C&M Information Technology, a JV between China Electronics Technology Group Corporation and Microsoft Corporation

ERP: enterprise resource planning

EDA: electronic design automation

SoE: state-owned enterprise

OA: office automation

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Exhibit 1: Shortlisted CPU, OS and database companies (listed companies uncovered)

Key listed companies related to the self-sufficiency of CPU, OS and database

Category	Company	Chinese	Ticker	Product (example)
CPU	Loongson Technology	龙芯中科	688047 CH	Loongson 3A5000
CPU	Hygon Information	海光信息	688041 CH	Hygon C86 3350
	ArcherMind Technology	诚迈科技		Tongxin server OS V20 (kernel version 4.19)
OS	(shareholder of Tongxin)	姚22771又		Tongxin desktop OS V20 (kernel version 4.19)
	China National Software	中国软件		NeoKylin desktop OS V10 (kernel version 5.4)
	(Shareholder of Kylin Software)	中国扒什		NeoKylin advanced server OS V10 (kernel version 4.19)
	Dawning Information	中科曙光	603019 CH	Fangde high reliability server OS V4.0 (kernel version 4.19)
	(shareholder of Zhongke Fangde)	中科塔儿		Fangde desktop OS V3.1 (kernel version 4.9)
Database	Taiji Computer	太极股份	002368 CH	SeaboxSQL V11.5
	(shareholder of KingBase)			DEGUUX3QL VIII.3
	Vastdata	海量数据	603138 CH	Vastbase G100 V2.2

Source: China Information Technology Security Evaluation Center

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Exhibit 2: CPU and OS requirement for central procurement of computers by government

There are specific configuration requirements on CPU and OS for central procurement of computers

			Desktop co	omputers			
Configuration type	1	2	3	4	5	6	7 (need to fulfil certain requirements)
Budget (cap)	Rmb5k						
CPU brand	Loongson 龙芯	Phytium 飞腾	Zhaoxin 兆芯	Huawei Kunpeng 华为鲲鹏	Hygon 海光	ShenWei 申威	Intel / AMD
CPU model	≥3A5000	≥D2000	≥KX-U6780A		≥C86 3350	≥WY831	≥I5 12500 or ≥Ryzen5 5600G
Pre-installed OS	Kylin (麒麟) / Tong	xin UOS (统信 UOS)		科方德) / other OS that rement	t meet security and reli	ability assessment	Windows 10 CMIT Government Edition
			Portable c	omputers			
Configuration type	1	2	3	4	5	6 (need to fulfill certain requirements)	
Budget (cap)				Rmb7k	•		
CPU brand	Loongson 龙芯	Phytium 飞腾	Zhaoxin 兆芯	Huawei Kunpeng 华为鲲鹏	ShenWei 申威	Intel / AMD	
CPU model	≥3A5000	≥D2000	≥KX-U6640MA	≥Kirin9006C	≥ShenWei SW421	≥I7 1355U or ≥Ryzen7 7730U	
Pre-installed OS	Kylin (麒麟) / Tongxin UOS (统信 UOS) / Zhongke Fangde (中科方德) / other OS that meet security and reliability assessment requirement Windows 10 CM					T Government Edition	

Source: Central Government Procurement Center

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Exhibit 3: Xinchuang overview

Xinchuang aims to realize independent control in the field of information technology and ensure national information security



Source: BofA Global Research; Note: estimated self-sufficiency ratio is included in bracket

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Exhibit 4: Qualified products according to security and reliability assessment resultsThe results were announced in Dec 2023 and will be effective for three years

CPU		OS	
No. Product	Company	No. Product	Company
1 Kunpeng 920	Hisilicon	1 NeoKylin desktop OS V10 (kernel version 5.4)	KylinSoft
2 Loongson 3C5000L	Loongson Technology	2 NeoKylin advanced server OS V10 (kernel version 4.19)	KylinSoft
3 SW1621	Wuxi Institute of Advanced Technology	3 Tongxin server OS V20 (kernel version 4.19)	Tongxin Software
4 Loongson 3A4000/3B4000	Loongson Technology	4 Fangde high reliability server OS V4.0 (kernel version 4.19)	Zhongke Fangde
5 Loongson 3A5000/3B5000	Loongson Technology	5 Fangde desktop OS V3.1 (kernel version 4.9)	Zhongke Fangde
6 SW421	Wuxi Institute of Advanced Technology	6 Tongxin desktop OS V20 (kernel version 4.19)	Tongxin
7 SW3231	Wuxi Institute of Advanced Technology	Database	
8 Phytium Tengrui D2000	Phytium Technology	No. Product	Company
9 Phytium FT-2000	Phytium Technology	1 Dameng DB V8.4	Dameng
10 Phytium FT-2000+	Phytium Technology	2 PolarDB V2.0	Alibaba Cloud
11 Pangu M900	Haisi Technology	3 TDSQL relational DB V8.0	Tencent Cloud
12 Phytium Tengyun S2500	Phytium Technology	4 HighGo database system V4.5	HighGo Software
13 Kirin 9006C	Hisilicon	5 XuguDB V11.0	Xugu Weiye
14 Hygon C86-3G	Hygon Information Technology	6 GBase 8s V8.8	GBASE
15 Kirin 990	Hisilicon	7 SeaboxSQL V11.5	Eastern Jin
16 Hygon No.2 C86 3230/3250/3280/5280/7250/7260/7280/7285	Hygon Information Technology	8 KingbaseES V8	Renda Jincang
17 ZX-E KX-U6780A/KH-37800D/KX-6640MA/KX-6640A	Shanghai Zhaoxin Semiconductor	9 Vastbase G100 V2.2	Vastdata
18 ZX-D KX-U5580	Shanghai Zhaoxin Semiconductor	10 GreatDB V1.0	GreatLinux
		11 UXDB V2.1	Uxsino Software

Source: China Information Technology Security Evaluation Center

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