1969

PURCHASE OF THE IBM 360/30

50 YEARS HIGH-TECH BEHIND THE IRON CURTAIN

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To obtain the necessary currency, cars were manufactured beyond the scope of the state plan and then exported

Vegetables were bought with the money generated, which were then sold to finance the purchase of the computer

AZNP* also had to ensure that they could raise the Czech korunas needed to purchase the computer themselves, without any support from the state

IBM support was organised and executed from Vienna

* Automobilové závody, národní podnik (Automotive Works, national company)

IBM

CONFIGURATION OF THE IBM 360/30 AFTER UPGRADE

CPU	64-kB magnetic-core memory, speed approx. 30,000 operations/sec.
Control panel	IBM typewriter with spherical head + control panel for the CPU
Disk drive	4 units each 7.2 MB, with controller 3 units each 29 MB, with controller
Magnetic tapes	2 units with NRZI encoding 3 units with PE system and controller

Data reader	80-column and 90-column punch card reader (approx. 1,000 punch cards/min.) 80-column punch card reader/puncher 2 readers of punched tapes of any kind
Operating system	DOS + BOMP database system (for automotive applications)
Printers	2 chain printers with a hydraulic paper feed, approx. 1,000 lines/min.

2019
NEW SUPERCOMPUTER

MOST POWERFUL COMPANY COMPUTER IN THE CZECH REPUBLIC

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HIGHLIGHTS OF THE ŠKODA DATA CENTRE

Data is stored and processed directly in ŠKODA's own cloud in the data centre, allowing for the highest possible high level of security

The data centre complies with the highest ecological standards – GREEN DATA

Qualified staff are needed to operate the tremendous computing power: ŠKODA IT is growing every year and is therefore searching for new talent

KEY FACTS & FIGURES ON THE NEW HPC MODULE

HPC	high performance computing
Data processing capacity	2 petaFLOPS
Configuration	2 HPE SGI 8600 clusters 1,008 computing nodes No co-processors or GPU graphics cards, only Intel processors HPC network core upgraded from 10 to 100 Gbit/s in 2018

Power consumption	400 kW
Areas of use	aerodynamics, vehicle safety, engine development
Financing	HPC clusters acquired via leasing (36 months), investments amounting to €8 million Total investment of €8.99 million