HPCN in China

NCIC (National Research Center for Intelligent Computer Systems)

- located in Beijing

-Research topics:

- Hardware:
- Software:

SMP and MPP OS, Prog. Environment

FUDAN University (Institute of Parallel Processing)

- located in Shanghai

- Research topics:Software:
- parallelizing compiler

JIAO TONG University

located in Shanghai

Research topics:

Software: HPF compiler

NCIC

R&D Center on advanced Computer Technology funded by the 863 program

R&D achievements first China-made SMP (1993) first China-made MPP (1995)

Collaboration Motorola (joint laboratory) started in 1996

Human resources

16 PhD

80 employees {

30 MS

Technology transfer Dawning Information Industry Corp. (June 1993) to sale SMPs and MPPs goal: (10% of the Chinese HPC market) 1996: 250-300 units 1997: ~ 1000 units~ Products - Dawning - I (SMP) - Dawning 1000 (MPP)

1000 plus

NCIC Projects and **Dawning Products**

SMP

MPP

• Dawning - 1 (4-16 processors) • Dawning 1000 (32)

• Dawning - 2

- Dawning 1000 plus (64)
- Dawning 2000 (1998)

(32 - 128)

256

Research	Dawning 3000
projects	
S863	5000

1 Teraflop goal:

Conclusion

HPCN Technology is considered very important by Chinese authorities

scientific and engineering computation OLTP application

NCIC will play an important role

involvement in 863 high-tech R&D program future program (S-863): 1998 2010

Dawning Corporation is an important player in the HPC market in China

existing product (Dawning-1, 1000, 1000 plus) future product (Dawning-2, 2000, 3000, ...)

Support from SSTCC, Ministry of Electronic Industry and MOFTEC