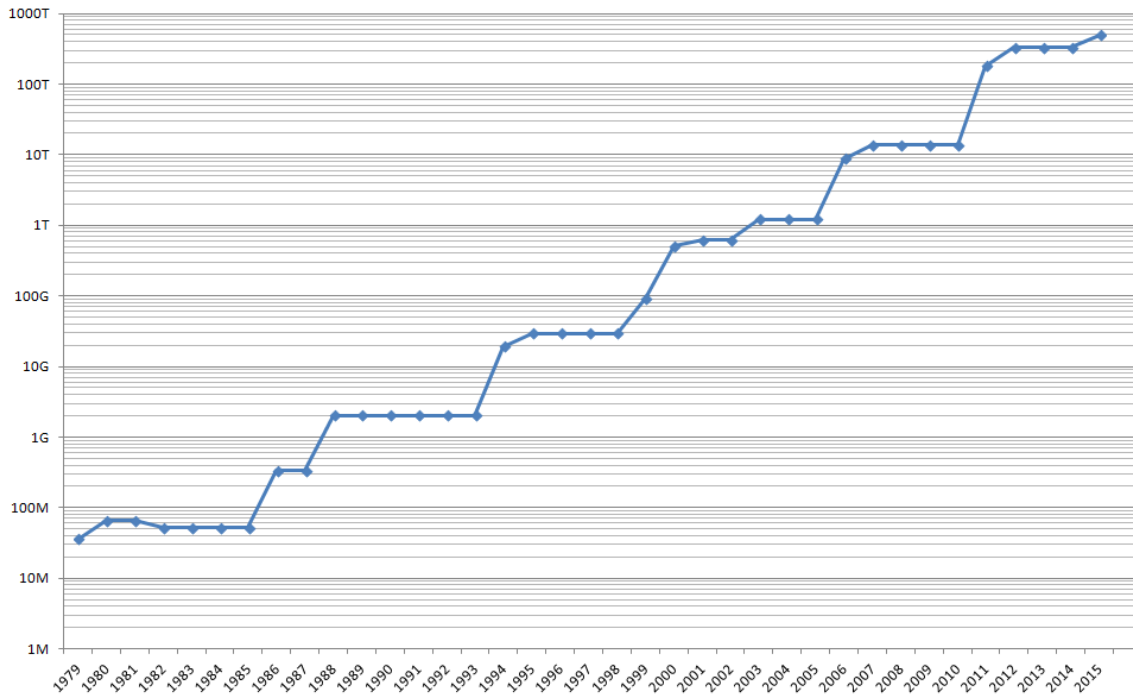


計算科学研究センターにおける CPU 能力の変遷

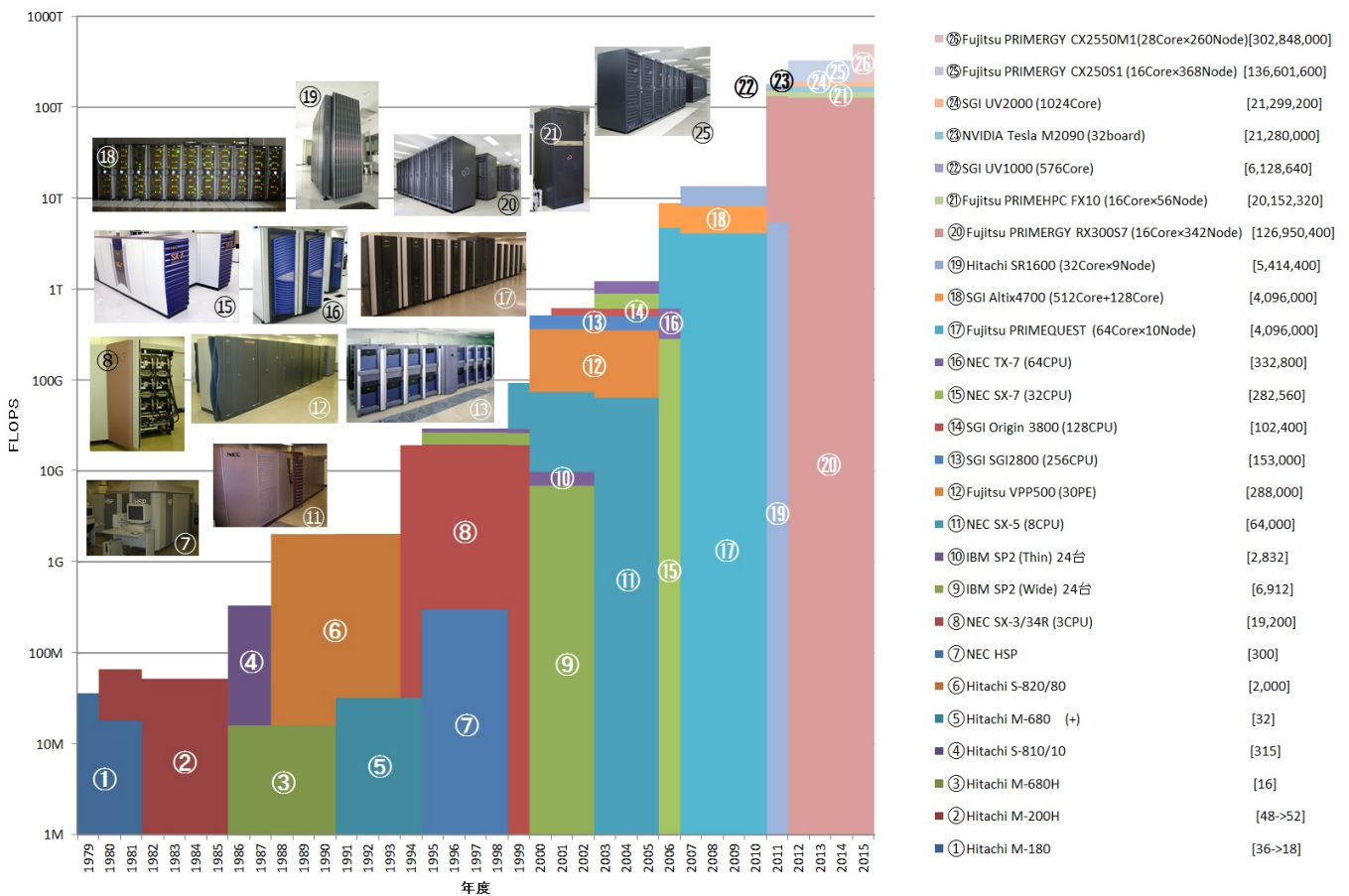
| 年    | 機種                       | 理論総演算性能 (MFLOPS) |
|------|--------------------------|------------------|
| 1979 | HITACHI M-180 (2台)       | 36               |
| 1980 | HITACHI M-180            | 18               |
|      | HITACHI M-200H           | 48               |
|      | 合計                       | 66               |
| 1982 | HITACHI M-200H (2台)      | 52               |
| 1986 | HITACHI M-680H           | 16               |
|      | HITACHI S-810/10         | 315              |
|      | 合計                       | 331              |
| 1988 | HITACHI M-680H           | 16               |
|      | HITACHI S-820/80         | 2,000            |
|      | 合計                       | 2,016            |
| 1991 | HITACHI M-680H(+)        | 32               |
|      | HITACHI S-820/80         | 2,000            |
|      | 合計                       | 2,032            |
| 1994 | HITACHI M-680H(+)        | 32               |
|      | NEC SX-3/34R (3 CPU)     | 19,200           |
|      | 合計                       | 19,232           |
| 1995 | IBM SP2 (Wide24 台)       | 288.0×24         |
|      | IBM SP2 (Thin24 台)       | 118.0×24         |
|      | NEC HSP                  | 300              |
|      | NEC SX-3/34R (3 CPU)     | 19,200           |
|      | 合計                       | 29,244           |
| 1999 | IBM SP2 (Wide24 台)       | 288.0×24         |
|      | IBM SP2 (Thin24 台)       | 118.0×24         |
|      | NEC SX-5 (8 CPU)         | 64,000           |
|      | NEC SX-3/34R (3 CPU)     | 19,200           |
|      | 合計                       | 92,944           |
| 2000 | IBM SP2 (Wide24 台)       | 288.0×24         |
|      | IBM SP2 (Thin24 台)       | 118.0×24         |
|      | NEC SX-5 (8 CPU)         | 64,000           |
|      | Fujitsu VPP5000 (30 PE)  | 288,000          |
|      | SGI SGI2800 (256 CPU)    | 153,000          |
|      | 合計                       | 514,744          |
| 2001 | IBM SP2 (Wide24 台)       | 288.0×24         |
|      | IBM SP2 (Thin24 台)       | 118.0×24         |
|      | NEC SX-5 (8 CPU)         | 64,000           |
|      | Fujitsu VPP5000 (30 PE)  | 288,000          |
|      | SGI SGI2800 (192 CPU)    | 115,200          |
|      | SGI Origin3800 (128 CPU) | 102,400          |
|      | 合計                       | 579,344          |
| 2003 | NEC SX-7 (32 CPU)        | 282,560          |
|      | NEC TX7 (64 CPU)         | 256,000          |
|      | Fujitsu VPP5000 (30 PE)  | 288,000          |
|      | SGI SGI2800 (192 CPU)    | 115,200          |

| 年    | 機種  | 理論総演算性能 (MFLOPS) |
|------|---|------------------|
|      | SGI Origin3800 (128 CPU)                    | 102,400          |
|      | 合計  | 1,044,160        |
| 2006 | NEC SX-7 (32 CPU)                           | 282,560          |
|      | NEC TX7 (64 CPU)                            | 256,000          |
|      | Fujitsu PRIMEQUEST (640 core)               | 4,096,000        |
|      | SGI Altix4700 (640 core)                    | 4,096,000        |
|      | 合計  | 8,730,560        |
| 2008 | Fujitsu PRIMEQUEST (640 core)               | 4,096,000        |
|      | SGI Altix4700 (640 core)                    | 4,096,000        |
|      | Hitachi SR16000 (288 way)                   | 5,414,400        |
|      | 合計  | 13,606,400       |
| 2011 | Fujitsu PRIMERGY RX300S7 (5,472 core)       | 126,950,400      |
|      | (+ NVIDIA Tesla M2090 32台)                  | 21,280,000       |
|      | Fujitsu PRIMEHPC FX10 (1,536 core)          | 20,152,320       |
|      | SGI UV1000 (576 core)                       | 6,128,640        |
|      | Hitachi SR16000 (288 way)                   | 5,414,400        |
|      | 合計  | 179,925,760      |
| 2012 | Fujitsu PRIMERGY RX300S7 (5,472 core)       | 126,950,400      |
|      | (+ NVIDIA Tesla M2090 32台)                  | 21,280,000       |
|      | Fujitsu PRIMEHPC FX10 (1,536 core)          | 20,152,320       |
|      | SGI UV2000(1024core)                        | 21,299,200       |
|      | Fujitsu PRIMERGY CX250S1 (5,888 core)       | 136,601,600      |
|      | 合計  | 326,283,520      |
| 2015 | Fujitsu PRIMERGY RX300S7 (5,472 core)       | 126,950,400      |
|      | (+ NVIDIA Tesla M2090 32台)                  | 21,280,000       |
|      | Fujitsu PRIMEHPC FX10 (1,536core)           | 20,152,320       |
|      | SGI UV2000 (1,024core)                      | 21,299,200       |
|      | Fujitsu PRIMERGY CX2550M1 (7,280 core)      | 302,848,000      |
|      | 合計  | 492,529,920      |
| 2017 | NEC LX LX 2U-Twin2サーバ 406Rh-2 (31,760 core) | 2,439,000,000    |
|      | NEC LX 1Uサーバ 110Rh-1 (800 core)             | 61,400,000       |
|      | NEC LX 1Uサーバ 110Rh-1 (5,724 core)           | 550,000,000      |
|      | NEC LX 4U-GPUサーバ 108Th-4G (2,304 core)      | 221,000,000      |
|      | (+NVIDIA Tesla P100 2枚×96台)                 | 806,000,000      |
|      | Fujitsu PRIMEHPC FX10 (1,536 core)          | 20,152,320       |
|      | 合計  | 3,097,552,320    |
| 2022 | HPE Apollo2000 Gen 10 Plus (102,912 core)   | 4,034,000,000    |
|      | HPE Apollo2000 Gen 10 Plus (1,792 core)     | 70,000,000       |
|      | HPE Apollo6500 Gen 10 Plus (2,048 core)     | 80,000,000       |
|      | (+NVIDIA A100 NVLink 128個)                  | 2,496,000,000    |
|      | 合計  | 6,680,000,000    |

# FLOPS



## 詳細版



| 添付                                    | サイズ       |
|---------------------------------------|-----------|
| <a href="#">スパコンマシン変移図2015.png</a>    | 623.28 KB |
| <a href="#">スパコン演算性能変移図2015.png</a>   | 63.64 KB  |
| <a href="#">スパコン演算性能変移図2015-2.png</a> | 21.51 KB  |