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# NEW T9000 PRODUCT INFORMATION

- New data is available covering the following :
- Instruction and Data Cache
  - Cache organization and configuration
  - Cache instructions and operation
- Data/Strobe Links
  - Link format and protocol
  - Handling errors on links
  - Link configuration and reset

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# T9000 RELEASE PHASES

- ALPHA RELEASE
  Reduced functionality CPU
  No VCP
- BETA RELEASE
  ALPHA plus VCP
- GAMMA RELEASE
  Fully functional CPU
  Fully functional device

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# SPECIFICATION CHANGES

- The following are differences from previously published specifications
- Binary code compatability with T805 is not being supported.
  This is not really a problem.
- Devices mapped into PMI must now be mapped as a 'DEVICE'

# COMMUNICATIONS & SYNCHRONIZATION

- T9000 supports zero length messages with 'in' and 'out' instructions
- 'variable in' 'variable out' & 'load count' allow for variable length message transfers.
- Many-to-one distributed communications supported by 'Resource channel mechanism'.

WILL INVOKE A TRAP ⇒ HANDLER.

COMPILER DIRECTIVE

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# T9000 BETA SILICON

- The following will not be implemented on BETA silicon :

- TIMESLICING
  The timeslice instruction will cause the current process to be de-scheduled.

- SINGLE-STEPPING & WATCHPOINTING
  This support for debugging will be fully functional on GAMMA release.

- CRC & DEVICE ACCESS.

ΠΠU APP.N'S

i.e. SEQ OPERATION.

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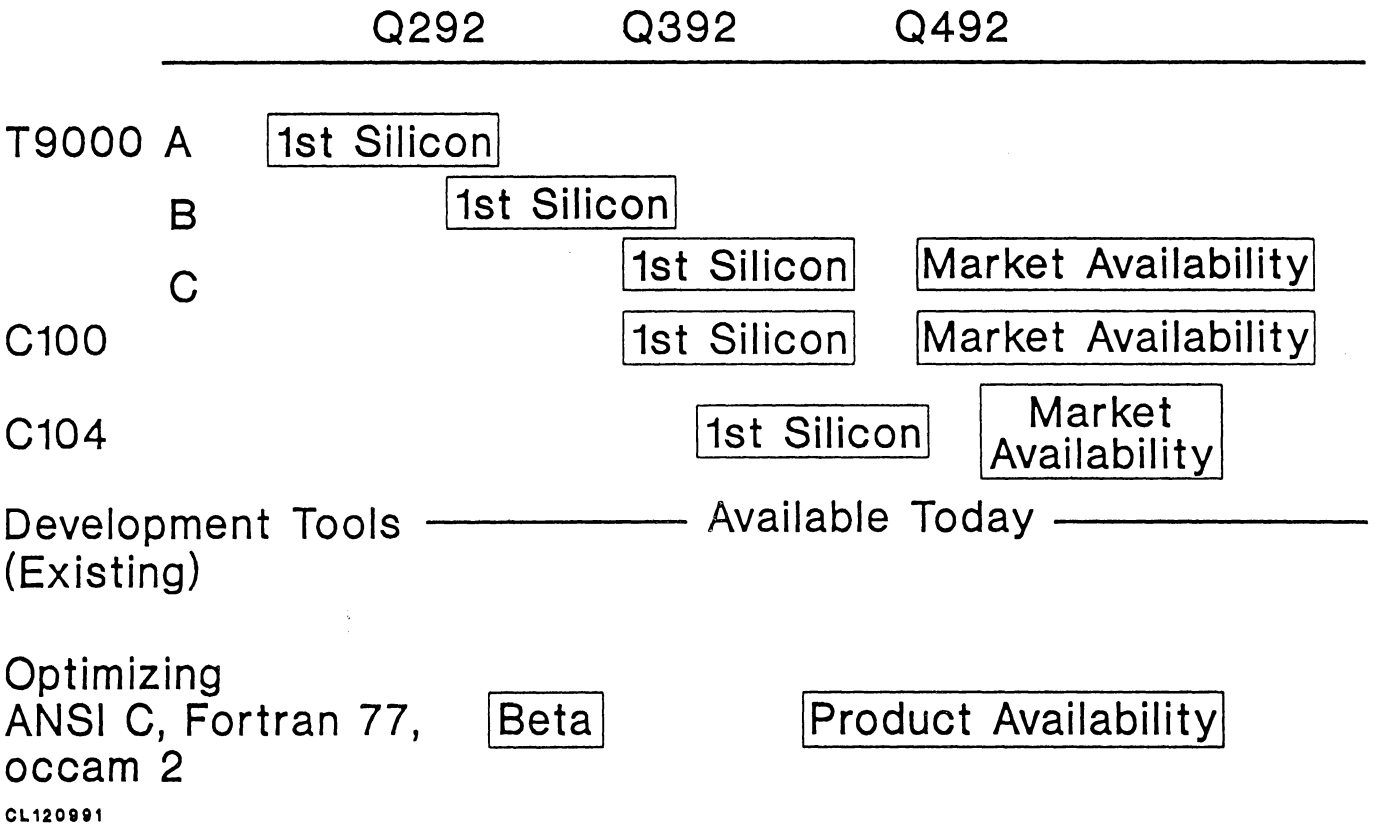
# T9000 Family Timescales






SGS-THOMSON MICROELECTRONICS

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## PROGRESS REPORT: (24-MAR-1992)

| Block | Design | Layout | Layout Completion |
|---|---|---|---|
| CPU | 100% | 90% | April '92 |
| FPU | 100% | 100% | Complete |
| Links | 100% | 100% | Complete |
| VCP | 90% | 80% | May '92 |
| PMI | 100% | 100% | Complete |
| Cache | 100% | 100% | Complete |
| Control unit | 100% | 100% | Complete |

## T9000 PRODUCT FAMILY TIMESCALES:

| Product | 1st Silicon | Samples |
|---|---|---|
| T9 alpha | Jun 1992 | Jul 1992 |
| T9 beta | Jul 1992 | Aug 1992 |
| T9 gamma | Oct 1992 | Nov 1992 |
| C104 | Oct 1992 | Nov 1992 |
| C100 | Sep 1992 | Oct 1992 |