

12. Parallel Programming

: processor program

(Parallel Programming Language
: Ada, Occam, Concurrent Pascal
Parallel Compiler

cf) Flynn



SISD (Single-Instruction Single-Data)

SIMD parallel processing

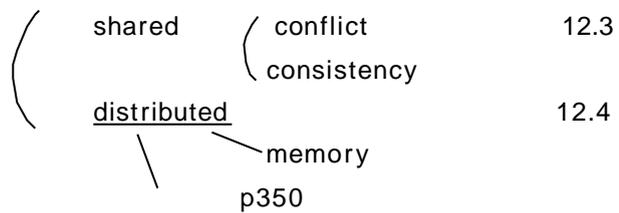
MISD

MIMD parallel processing

SIMD p347 (12.1)

[¹

MIMD p348 (12.2)



* PL

o process

SPMD (Single Program Multiple Data)

: process program

(parent process / child process)

MPMD (Multiple Program Multiple Data)

: segment가 process Code
가

(1)

(parbegin
S1;
:
S2;
parend

(2) procedure

```
  x = newprocess(p)
  process :
      :
  killprocess(x)
```

procedure

(3) program

```
: program process가 .
eg) UNIX fork()
```