

→ a thread is an instruction stream (each one) → number of threads doesn't matter, we can get as many as we
As in the training
- moidia calls cores - SMs (shared multiprocessus)  apple has beteregenous cores (light)  little
-> data parallelism Call threads do the same thing in terms of
instructions 1 111) a and realities
instructions Cincreare the number of ALUs and registers
-> vedor program = using AVX instructions
Can we a single instruction extream
can we a single matheation stream
and then multiple processor can have multiple
induction streams.
-> CTMD = lingle instruction, multiple data
- Alus one very cheap, FPUs are not as much
1 1 1 d a l'Arada 2
(c) mark outputs of unneeded vector lits  This is wasteful, we could get up to 1/2th performance
s instruction stream wherever We divergent

SIMD in GPUS

G implicit SIMD at letch decode level

Parallel execution branch predictions.

George in instruction at ALU level

SIMD — vertor operation (data parallelism)

multi-core — thread parallelism

C diff instruction streams for each

processor

at processor core level.