



Laboratoire d'Annecy de Physique des Particules

Optimisation Summary

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LISTIC



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 - operations : + - * / , etc at the same time

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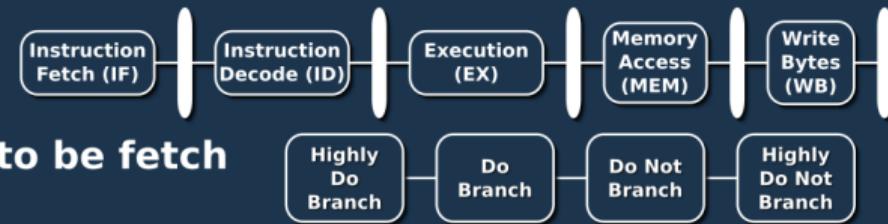
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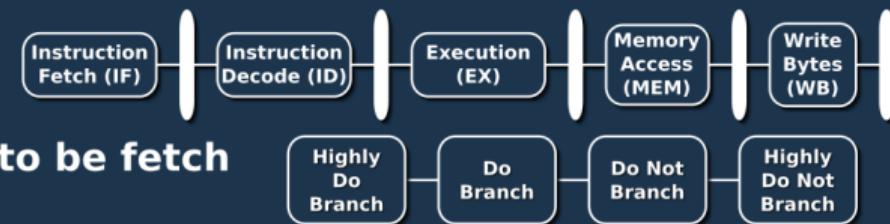
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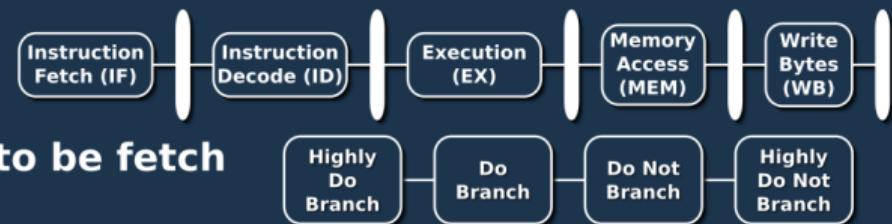


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- Data :
 - Alignment
 - Contiguosity
 - Avoid memory allocation redundancies



- C++ : Expressions template
 - Manage memory allocation redundancies
 - Do static computation
 - a little over cost at compilation time
 - no cost at execution time
- Code generators :
 - to write optimised kernels automatically
 - to write Python wrapper with C API
- Use existing code generator :
 - For CPU
 - Loopy
 - For CPU and GPU :
 - Tensor flow
 - Pytorch
 - Chainer