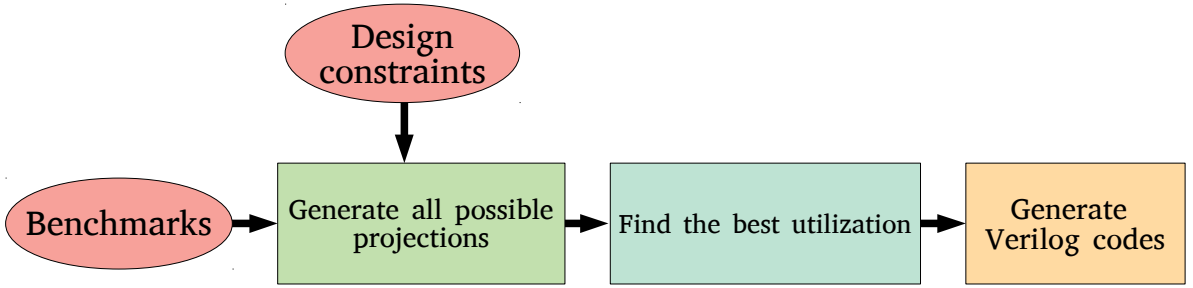
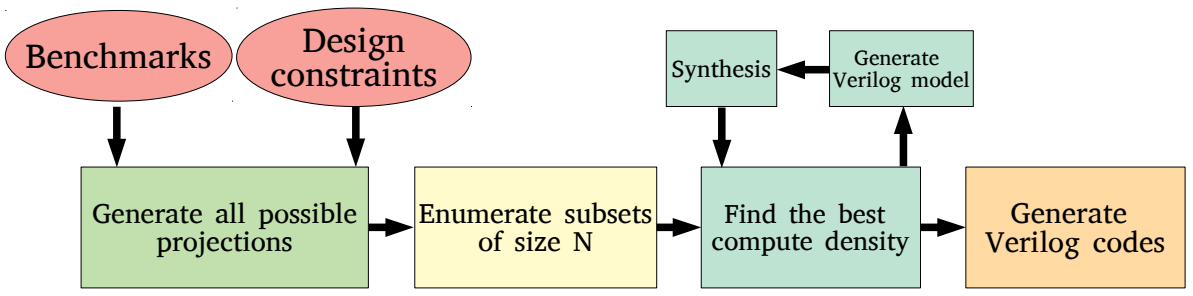
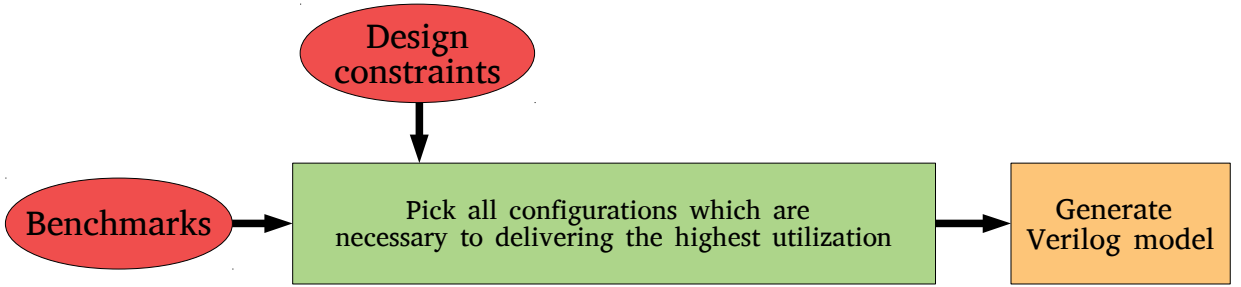


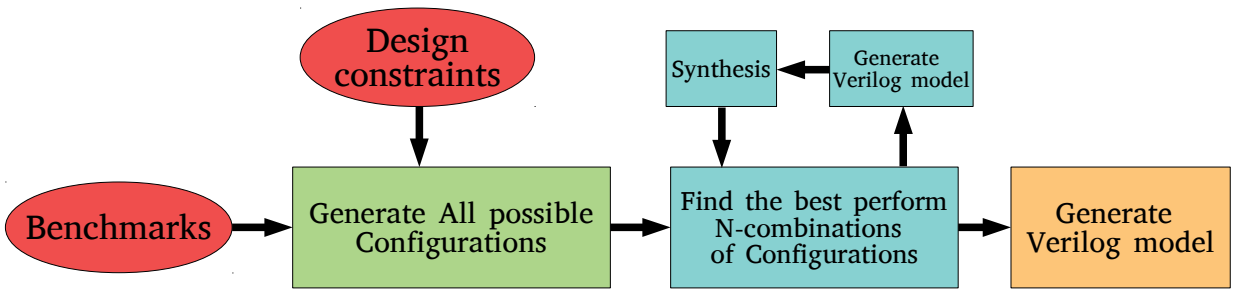
a) Heuristic



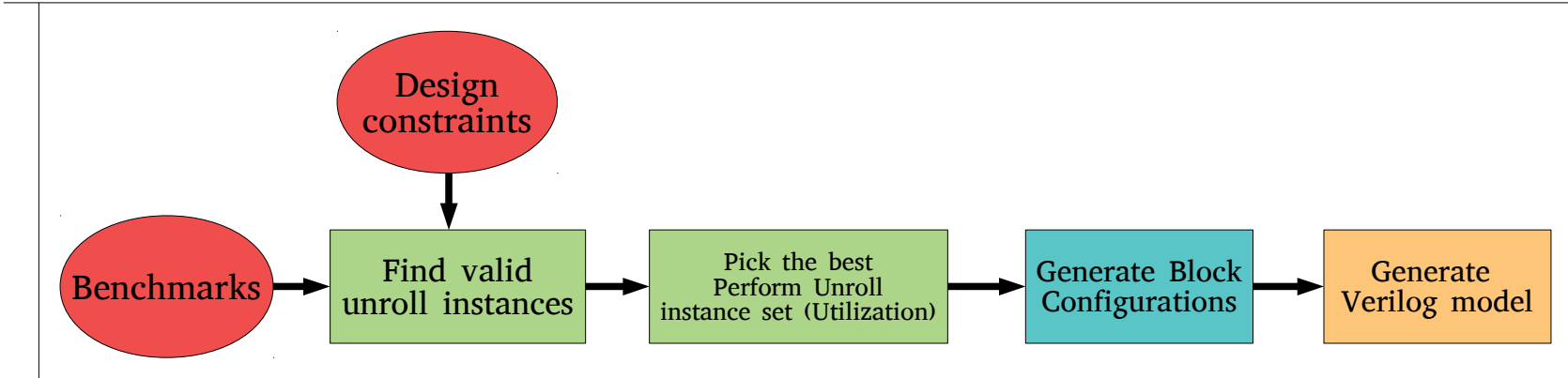
b) N-Config search



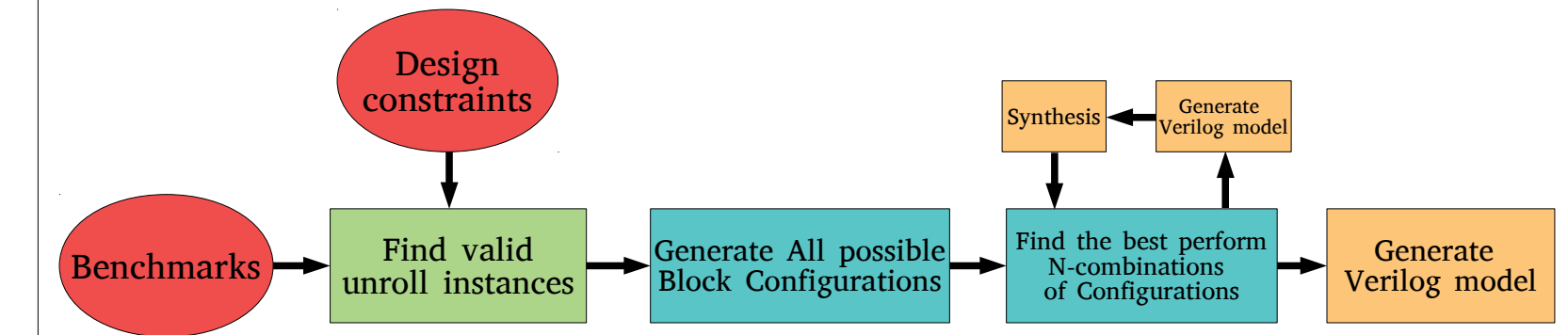
a) Heuristic



b) N-Config search

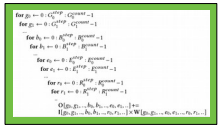


a) Heuristic

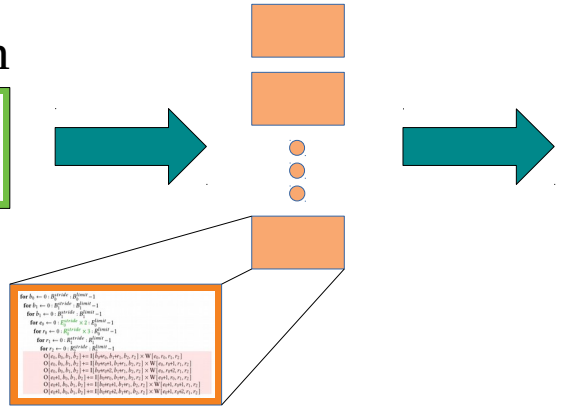


b) N-Config search

Algorithm



Unrollings



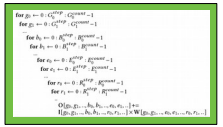
Projections

$<(U_{R\text{-}W}, W_{rate}, W_{stride}), U_{R\text{-}N}, U_E, U_B, U_G>$

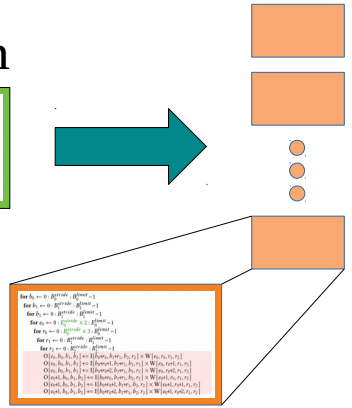
$<(U_{R\text{-}W}, W_{rate}, W_{stride}), U_{R\text{-}N}, U_E, U_B, U_G>$

$<(U_{R\text{-}W}, W_{rate}, W_{stride}), U_{R\text{-}N}, U_E, U_B, U_G>$

Algorithm



Unrollings



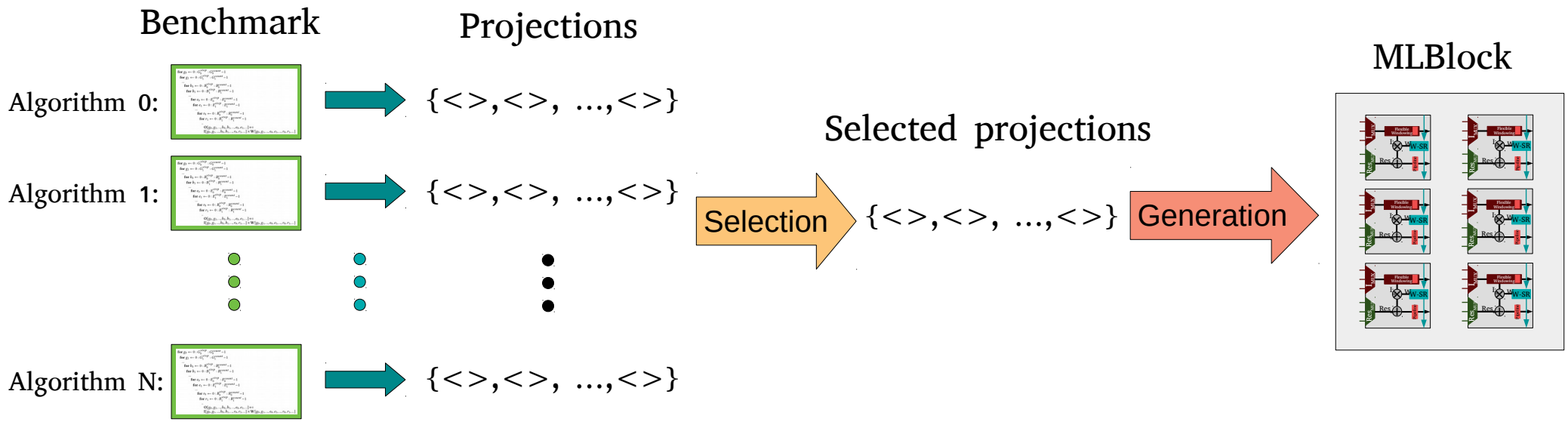
Projections

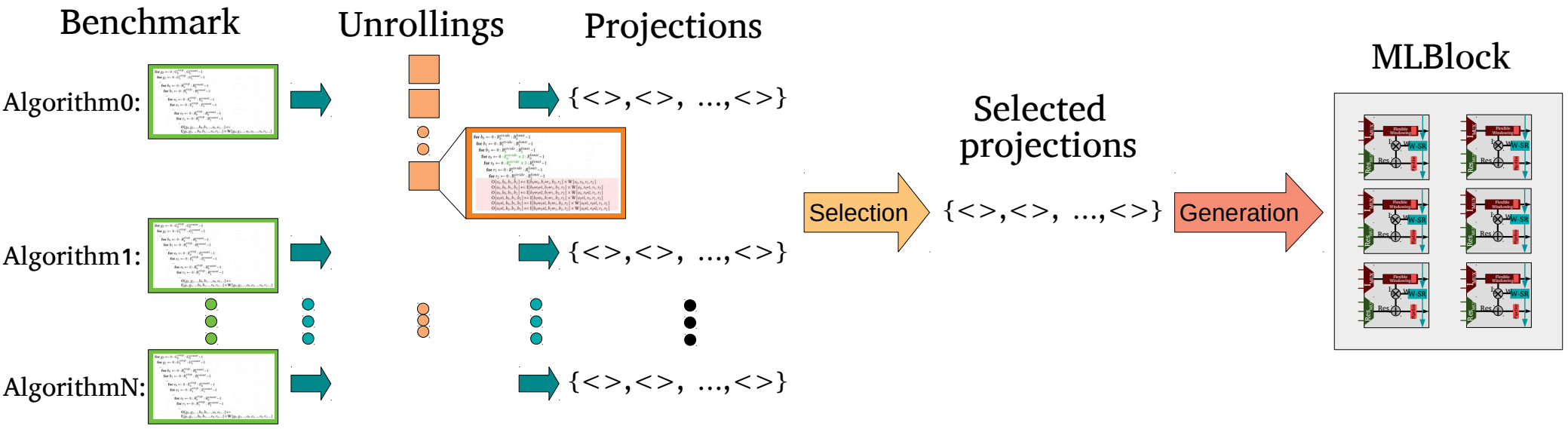
$$P(0):<(U^{0}_{R\text{-}W},W^{0}_{rate},W^{0}_{stride}),U^{0}_{R\text{-}N},U^{0}_{E},U^{0}_{B},U^{0}_{G}>$$

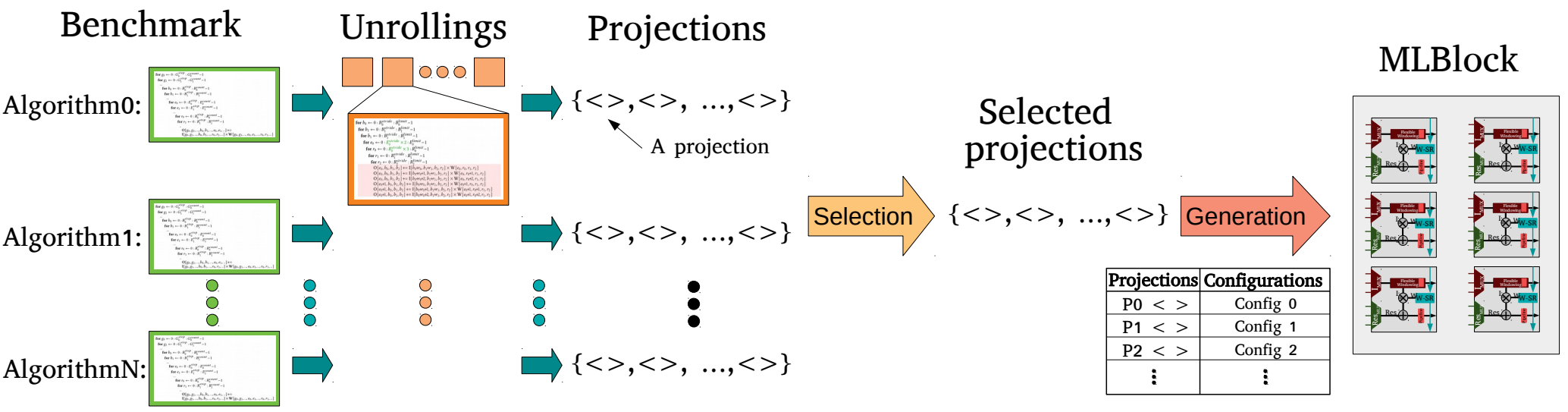
$$P(1):<(U^{1}_{R\text{-}W},W^{1}_{rate},W^{1}_{stride}),U^{1}_{R\text{-}N},U^{1}_{E},U^{1}_{B},U^{1}_{G}>$$

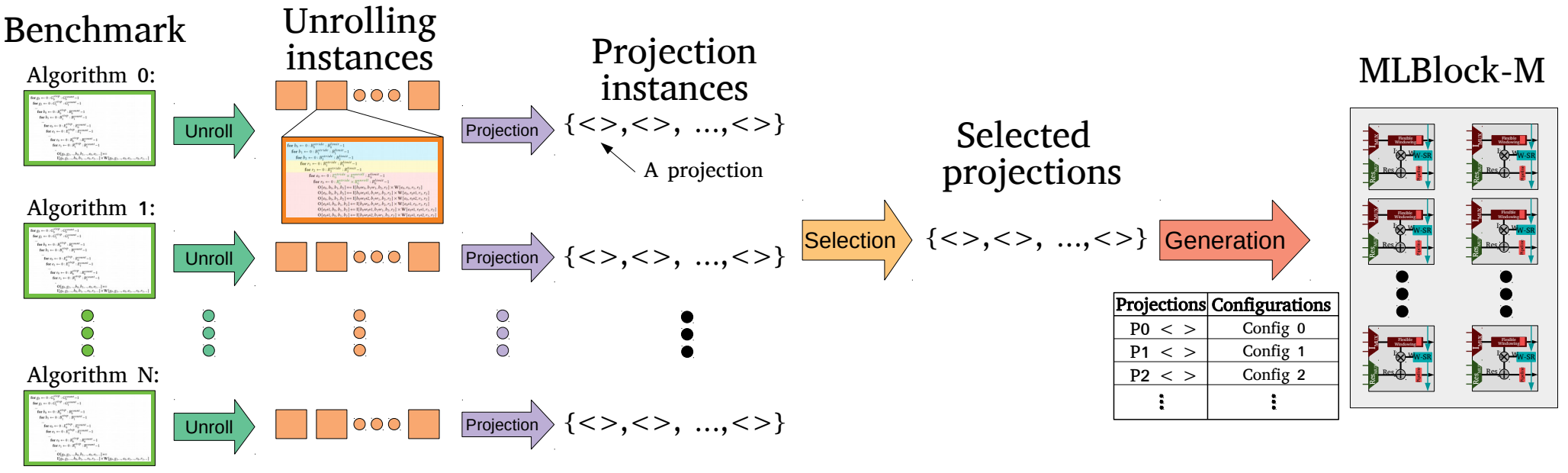
$$\vdots$$

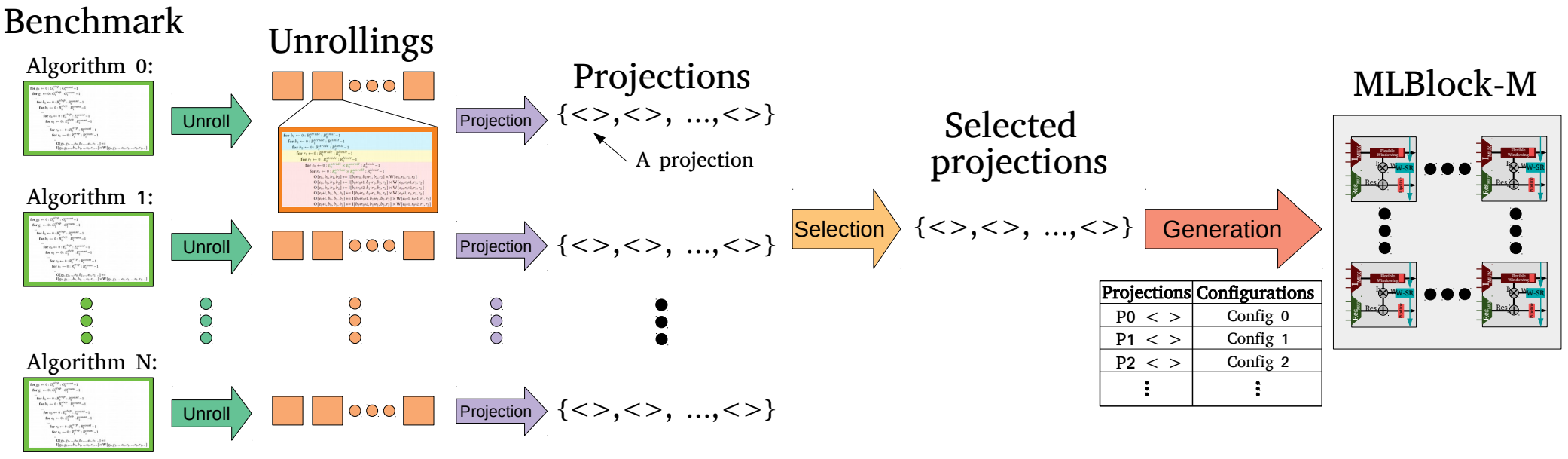
$$P(N):<(U^{N}_{R\text{-}W},W^{N}_{rate},W^{N}_{stride}),U^{N}_{R\text{-}N},U^{N}_{E},U^{N}_{B},U^{N}_{G}>$$


Benchmark
Projections
Algorithm 0:
{<>,<>, ...,<>}
Algorithm 1:
{<>,<>, ...,<>}
Algorithm N:
{<>,<>, ...,<>}
Selection
Selected projections
{<>,<>, ...,<>}
Generation
MLBlock


Benchmark
Unrollings
Projections
Algorithm0:
{<>,<>, ...,<>}
Algorithm1:
{<>,<>, ...,<>}
AlgorithmN:
{<>,<>, ...,<>}
Selection
Selected projections
{<>,<>, ...,<>}
Generation
MLBlock


Benchmark
Unrollings
Projections
Algorithm0:
Algorithm1:
AlgorithmN:
{<>,<>, ...,<>}
A projection
{<>,<>, ...,<>}
{<>,<>, ...,<>}
Selection
Selected projections
{<>,<>, ...,<>}
Generation
Projections
Configurations
P0 < >
Config 0
P1 < >
Config 1
P2 < >
Config 2
MLBlock


Benchmark
Algorithm 0:
Algorithm 1:
Algorithm N:
Unroll
Unroll
Unroll
Unrolling instances
Projection
Projection
Projection
Projection instances
{<>,<>, ...,<>}
A projection
{<>,<>, ...,<>}
{<>,<>, ...,<>}
Selection
Selected projections
{<>,<>, ...,<>}
Generation
Projections
Configurations
P0 < >
Config 0
P1 < >
Config 1
P2 < >
Config 2
MLBlock-M


Benchmark
Algorithm 0:
Algorithm 1:
Algorithm N:
Unroll
Unroll
Unroll
Unrollings
Projection
Projection
Projection
Projections
{<>,<>, ...,<>}
A projection
{<>,<>, ...,<>}
{<>,<>, ...,<>}
Selection
Selected projections
{<>,<>, ...,<>}
Generation
MLBlock-M
Projections
Configurations
P0 < >
Config 0
P1 < >
Config 1
P2 < >
Config 2