

Figure 1: X: []

The following versions used in the simulations.

- heads/alex-stable-release-TERA-1bbc361649a6952f6df662d4ea983c6a89d582f7(0.6.3)
- $\bullet \quad \text{heads/alex-stable-release-TERA-bc545f9093be36b0a173d3eb574ed35e54e2c29c} \\ (0.6.3)$

```
Configuration {
  random_seed: ![ 1, 2, 3 ],
   warmup: 9990000,
   measured: 9999990000,
  measured: 999990000, statistics_server_percentiles: [ 0, 5, 25, 50, 75, 95, 100 ], statistics_packet_percentiles: [ 0, 5, 25, 50, 75, 95, 100 ], general_frequency_divisor: 2,
  general_frequency_divisor: 2,
statistics_temporal_step: 1000,
  topology: Hamming {
  servers_per_router: 64,
sides: [64]},
traffic: Burst {
pattern: ![
       attern: :[
CartesianTransform{
sides: [64, 64],
shift: [0, 1],
legend_name: "Shift-1"},
        Composition {
   patterns: [
            LinearTransform{
  source_size: [ 64, 64 ],
               matrix: [
                 [ 1, 0 ],
[ 0. -1 ]].
               target_size: [64,64]},
          CartesianTransform{
sides: [64, 64],
shift: [0, 63]},
legend_name: "Switch complement"},
        Product { block_size: 64, global_pattern: RandomPermutation, block_pattern: Identity, legend_name: "Random switch permutation" }],
     tasks: 4096,
     message_per_task: 1
message_size: 20000},
     outer: InputOutput {
  virtual_channels: mecanismo![ 2, 1, 1, 2 ],
  virtual_channel_policies: mecanismo![
  [LowestLabel, EnforceFlowControl, Random ],
  [
  router: InputOutput {
            label_vector:
                                [ 0, 56 1}.
          OccupancyFunction { label_coefficient: 1, occupancy_coefficient: 1, product_coefficient: 0, constant_coefficient: 0, use_internal_space: true,
use_neighbour_space: true, aggregate: true },
          LowestLabel,
EnforceFlowControl,
        Ε
          \textit{VecLabel}~\{
                                [ 0, 56 ]},
            label_vector:
          OccupancyFunction { label_coefficient: 1, occupancy_coefficient: 1, product_coefficient: 0, constant_coefficient: 0, use_internal_space: true,
use_neighbour_space: true, aggregate: true },
          Lowest Label
          EnforceFlowControl,
          Random],
        Ε
          VecLabel {
                                 [ 0, 64 ]}
            label_vector:
**DecupancyEnaction* [ label_coefficient: 1, occupancy_coefficient: 1, product_coefficient: 0, constant_coefficient: 0, use_internal_space: true, use_neighbour_space: true, aggregate: true },
OccupancyFunction { label_coefficient: 1, occupancy_coefficient: 1, product_coefficient: 0, constant_coefficient: 0, use_internal_space: true, use_neighbour_space: true, aggregate: false },
          LowestLabel.
          EnforceFlowControl,
     Random]],
allocator: Random,
buffer_size: 160,
     bubble: false, flit_size: 16,
     intransit_priority: false,
     allow_request_busy_port: true,
     output_buffer_size:
     crossbar_frequency_divisor: 1.
     crossbar_delay: 2},
   maximum_packet_size:
                                     16.
   routing: mecanismo![
Valiant {
first: Shortest,
second: Shortest,
        first_reserved_virtual_channels: [ 0 ]
        second_reserved_virtual_channels: [ 1 ],
        legend_name: "Valiant"},
     Sum {
       policy: TryBoth,
first_routing: Shortest,
       first_allowed_virtual_channels: [0], second_allowed_virtual_channels: [0], second_allowed_virtual_channels: [0],
        legend_name: "bRINR"},
     Sum {
        policy: TryBoth,
first_routing: Shortest,
       second_routing: CCLabel {
balance_algorithm: sRINR { a: 0, b: 0 },
weight_repetition: true},
first_allowed_virtual_channels: [ 0 ],
        second_allowed_virtual_channels: [ 0 ],
        second_extra_label:
        legend_name: "sRINR"},
```

```
Sum{
    policy: TryBoth,
    first_routing: Shortest,
    second_routing: Valiant{
        first: Shortest,
        second: Shortest,
        first_reserved_virtual_channels: [0],
        second_reserved_virtual_channels: [1]},
    first_allowed_virtual_channels: [0],
        second_allowed_virtual_channels: [0],
        second_allowed_virtual_channels: [0],
        second_extra_label: 1,
        legend_name: "UGAL"}],

link_classes: [
LinkClass{ delay: 2},
LinkClass[ i],
launch_configurations: [
Slurm{
        job_pack_size: 1,
        sbatch_args: ["--exclude=node82,node69,node70,node123"],
        time: "2-10:00:00"}]
```