Print

Write data directly to the console.

Description

A simple listener that writes raw metric data to the console (stderr) in the format:

```
Event received: /rman/rib@sceneBuildingEnd from context prman at 00:00.1644 payload = [] Sample received: /rman/rib/processing:time.total at 00:00.3040 payload = [0.110921]
```

By default all metrics are disabled. Use the standard regexp rule to configure the stats which are printed.

Configuration

Required type for configuring the Print listener from an ini file.

type "print"

Options

Listener Options	Description	Required?	Default
type	Must be "print"	У	
name	Unique name of the listener	У	
samplingInterval	Sampling interval in MS for observed metrics unless otherwise specified.	n	1000 (1 second)
Metric Rules			
regexp	One or more metrics to be observed.	n	
samplingInterval	Sampling interval in MS for the metrics requested in preceding \mathtt{regexp} param.	n	6000 (1 minute)

Configuration Example: Print RIB-parsing metrics

Configure the listener to print all RIB processing metrics ("/rman/rib.*") once per second.

```
print_ribprocessing_stats.ini
```

```
[Listener]
  type "print"
  name "printListener"
  samplingInterval 1000
[MetricRules]
  [Rule]
  regexp "/rman/rib.*"
  samplingInterval 1000
```

Print RIB Parse Example Output

prman -statsconfig print_ribprocessing_stats.ini scene.rib

```
Metric Added, now observing: /rman/rib@renderBegin
Metric Added, now observing: /rman/rib@renderEnd
Event received: /rman/rib@renderBegin from context prman at 00:00.0003 payload = []
Metric Added, now observing: /rman/rib@sceneBuildingBegin
Metric Added, now observing: /rman/rib@sceneBuildingEnd
Metric Added, now observing: /rman/rib/processing:time@start
Metric Added, now observing: /rman/rib/processing:time@stop
Metric Added, now observing: /rman/rib/processing:time.total
Metric Added, now observing: /rman/rib/processing:time.countEvent received: /rman/rib@sceneBuildingBegin from
context prman at 00:00.0771 payload = []
Event received: /rman/rib/processing:time@start from context prman at 00:00.0771 payload = ["UNKNOWN DATA
LOCATION"]
Sample received: /rman/rib/processing:time.total at 00:00.1772 payload = [0]
Sample received: /rman/rib/processing:time.count at 00:00.1772 payload = [0]
Event received: /rman/rib/processing:time@stop from context prman at 00:00.1902 payload = ["UNKNOWN DATA
LOCATION"]
Event received: /rman/rib@sceneBuildingEnd from context prman at 00:00.1902 payload = []
Sample received: /rman/rib/processing:time.total at 00:00.2771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.2771 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.3771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.3772 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.4771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.4771 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.5771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.5772 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.6807 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.6807 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.7846 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.7846 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.8797 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.8797 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:00.9843 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:00.9843 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.0776 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.0776 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.1834 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.1834 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.2776 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.2776 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.3786 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.3786 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.4796 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.4796 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.5806 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.5806 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.6816 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.6816 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.7790 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.7790 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.8771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.8772 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:01.9771 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:01.9771 payload = [1]
Sample received: /rman/rib/processing:time.total at 00:02.0017 payload = [0.113079]
Sample received: /rman/rib/processing:time.count at 00:02.0017 payload = [1]
Event received: /rman/rib@renderEnd from context prman at 00:02.0017 payload = []
```

Configuration Example: Print ray count and process time/memory metrics

Configure the listener to print all RIB parsing metrics ("/rib.*") once per second.

print_processrays_stats.ini

```
[Listener]
type "print"
name "printListener"
samplingInterval 1000
[MetricRules]
# Sample raytracing "numRays" metrics 4x a second
[Rule]
regexp "/rman/raytracing.*numRays"
samplingInterval 250
# Sample process memory and time once a second
[Rule]
regexp "/system.processMemory|/system.processTime"
samplingInterval 1000
```

Example Output

prman -statsconfig print_processrays.ini scene.rib

PrintListener : found 2 metrics. PrintListener : declared an interest in /system.processMemory PrintListener : declared an interest in /system.processTime Metric Added, now observing: /rman/raytracing.numRays Metric Added, now observing: /rman/raytracing/camera.numRays Metric Added, now observing: /rman/raytracing/transmission.numRays Metric Added, now observing: /rman/raytracing/photon.numRays Metric Added, now observing: /rman/raytracing/light.numRays Metric Added, now observing: /rman/raytracing/indirect.numRays Sample received: /rman/raytracing.numRays at 00:00.3309 payload = [241445] Sample received: /rman/raytracing/camera.numRays at 00:00.3309 payload = [59808] Sample received: /rman/raytracing/transmission.numRays at 00:00.3309 payload = [113187] Sample received: /rman/raytracing/photon.numRays at 00:00.3309 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:00.3309 payload = [73151] Sample received: /rman/raytracing/indirect.numRays at 00:00.3309 payload = [7109] Sample received: /rman/raytracing.numRays at 00:00.5843 payload = [3338023] Sample received: /rman/raytracing/camera.numRays at 00:00.5843 payload = [368004] Sample received: /rman/raytracing/transmission.numRays at 00:00.5843 payload = [1502015] Sample received: /rman/raytracing/photon.numRays at 00:00.5843 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:00.5843 payload = [1310424] Sample received: /rman/raytracing/indirect.numRays at 00:00.5843 payload = [161909] Sample received: /rman/raytracing.numRays at 00:00.8326 payload = [9074398] Sample received: /rman/raytracing/camera.numRays at 00:00.8326 payload = [850792] Sample received: /rman/raytracing/transmission.numRays at 00:00.8326 payload = [4181662] Sample received: /rman/raytracing/photon.numRays at 00:00.8326 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:00.8326 payload = [3593762] Sample received: /rman/raytracing/indirect.numRays at 00:00.8326 payload = [448694] Sample received: /system.processMemory at 00:01.0068 payload = [[300650496, 19628032, 20303872]] Sample received: /system.processTime at 00:01.0068 payload = [[0.01, 0, 0]] Sample received: /rman/raytracing.numRays at 00:01.0838 payload = [15079056] Sample received: /rman/raytracing/camera.numRays at 00:01.0838 payload = [1434160] Sample received: /rman/raytracing/transmission.numRays at 00:01.0838 payload = [6920795] Sample received: /rman/raytracing/photon.numRays at 00:01.0838 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:01.0838 payload = [5981266] Sample received: /rman/raytracing/indirect.numRays at 00:01.0838 payload = [747181] Sample received: /rman/raytracing.numRays at 00:01.3378 payload = [21011282] Sample received: /rman/raytracing/camera.numRays at 00:01.3378 payload = [1803460] Sample received: /rman/raytracing/transmission.numRays at 00:01.3378 payload = [9781599] Sample received: /rman/raytracing/photon.numRays at 00:01.3378 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:01.3378 payload = [8381393] Sample received: /rman/raytracing/indirect.numRays at 00:01.3378 payload = [1047122] Sample received: /rman/raytracing.numRays at 00:01.5864 payload = [26892877] Sample received: /rman/raytracing/camera.numRays at 00:01.5864 payload = [2106107] Sample received: /rman/raytracing/transmission.numRays at 00:01.5864 payload = [12749121] Sample received: /rman/raytracing/photon.numRays at 00:01.5864 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:01.5864 payload = [10701656] Sample received: /rman/raytracing/indirect.numRays at 00:01.5864 payload = [1339387] Sample received: /rman/raytracing.numRays at 00:01.8368 payload = [32798832] Sample received: /rman/raytracing/camera.numRays at 00:01.8368 payload = [2413156] Sample received: /rman/raytracing/transmission.numRays at 00:01.8368 payload = [15697319] Sample received: /rman/raytracing/photon.numRays at 00:01.8368 payload = [0] Sample received: /rman/raytracing/light.numRays at 00:01.8368 payload = [13054980] Sample received: /rman/raytracing/indirect.numRays at 00:01.8368 payload = [1634668] Sample received: /system.processMemory at 00:02.0003 payload = [[3000524800, 477667328, 478343168]] Sample received: /system.processTime at 00:02.0003 payload = [[12.74, 0.69, 1333.06]] Sample received: /rman/raytracing/light.numRays at 00:02.0237 payload = [13417333] Sample received: /system.processTime at 00:02.0237 payload = [[31.85, 0.71, 1901.29]] Sample received: /system.processMemory at 00:02.0237 payload = [[2129747968, 246296576, 488271872]] Sample received: /rman/raytracing.numRays at 00:02.0237 payload = [33623601] Sample received: /rman/raytracing/indirect.numRays at 00:02.0237 payload = [1681008] Sample received: /rman/raytracing/camera.numRays at 00:02.0237 payload = [2455647] Sample received: /rman/raytracing/transmission.numRays at 00:02.0237 payload = [16069613] Sample received: /rman/raytracing/photon.numRays at 00:02.0237 payload = [0]