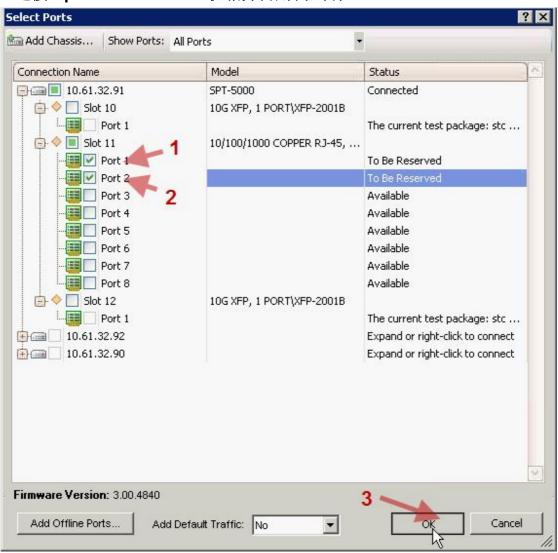


Spirent TestCenter RFC2544 throughput test (manual)

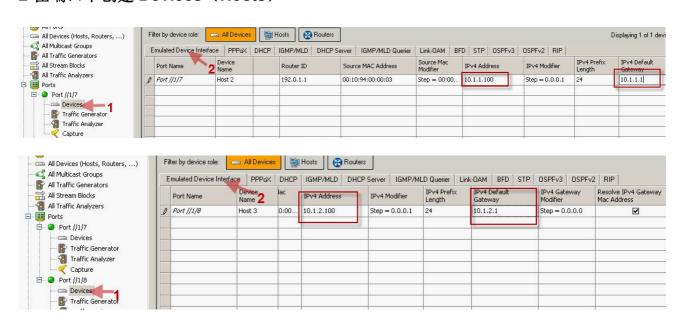


编号 版本	修改时间	说明
	01/08/2010	李辉

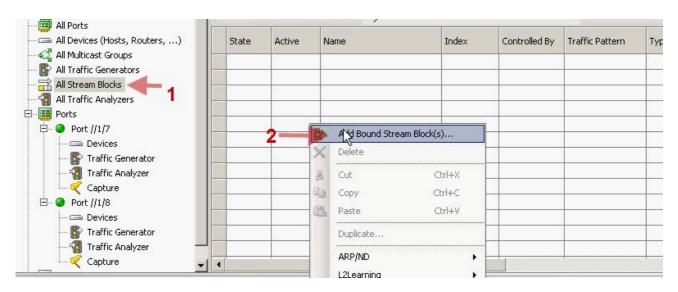
1 连接 Spirent TestCenter 机箱并占用测试端口

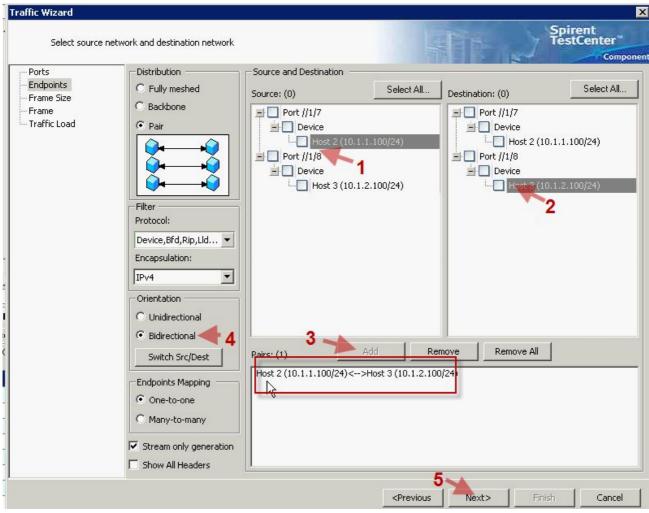


2 在端口下创建 Devices (Hosts)



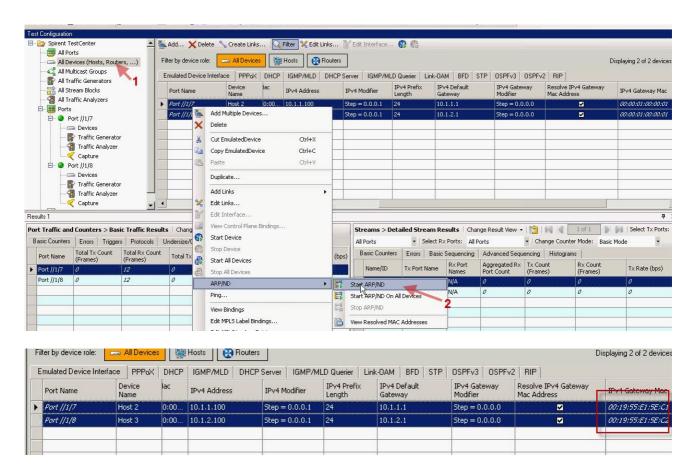
3 创建 boundstream



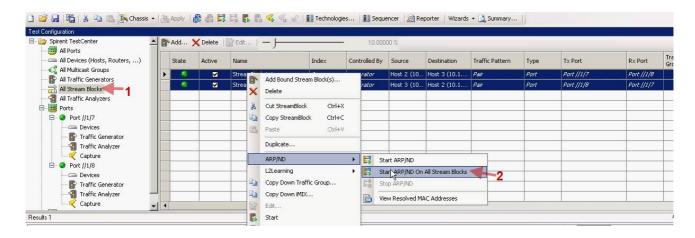


4 Start ARP

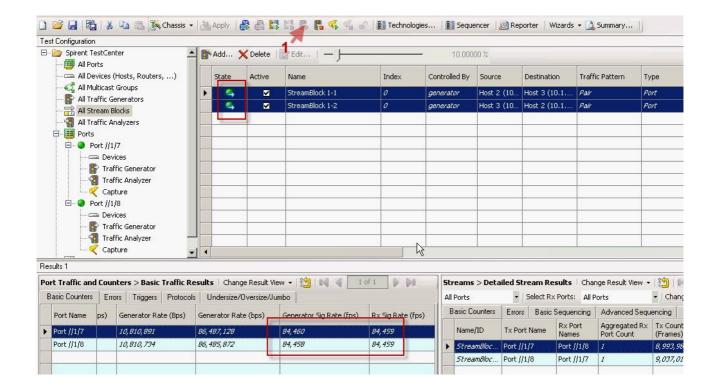
A. Start Hosts ARP



B. Start Boundstream ARP

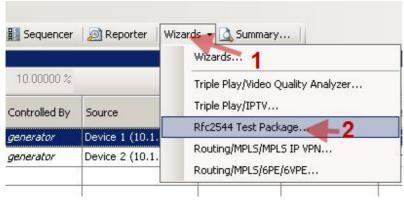


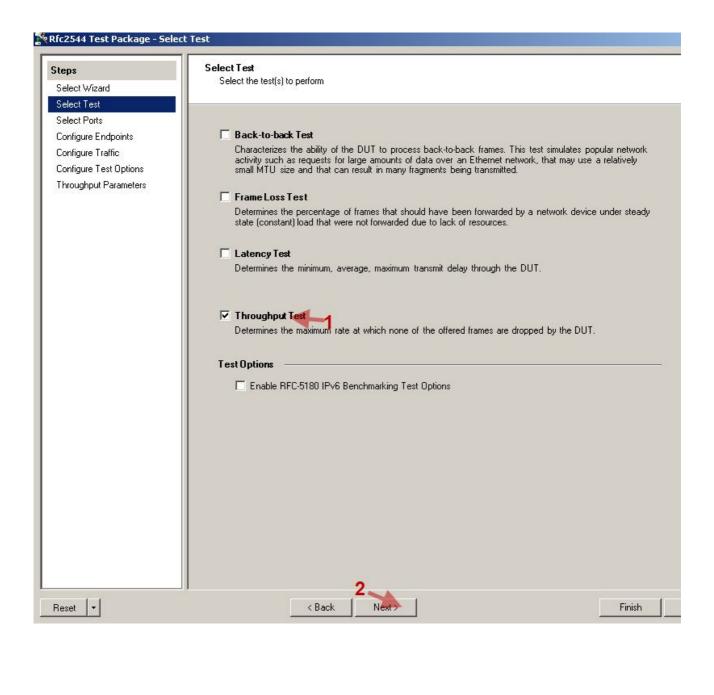
5. 发流验证

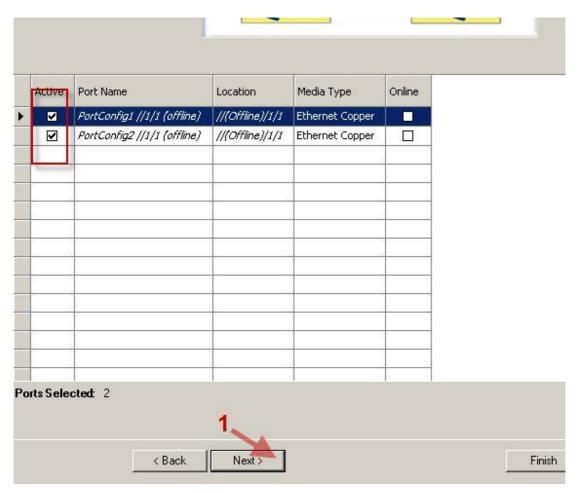


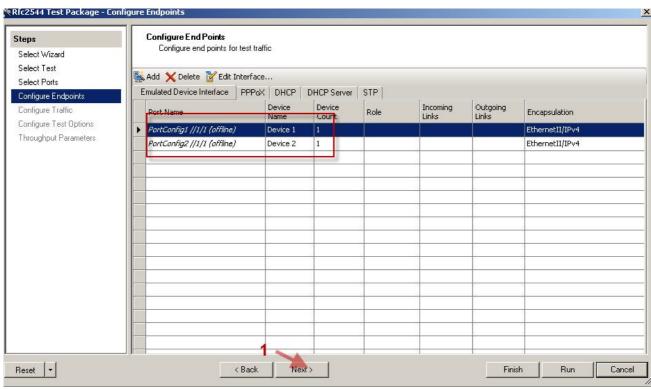
6 配置 RFC2544 wizard

A. 选择 RFC2544 test package

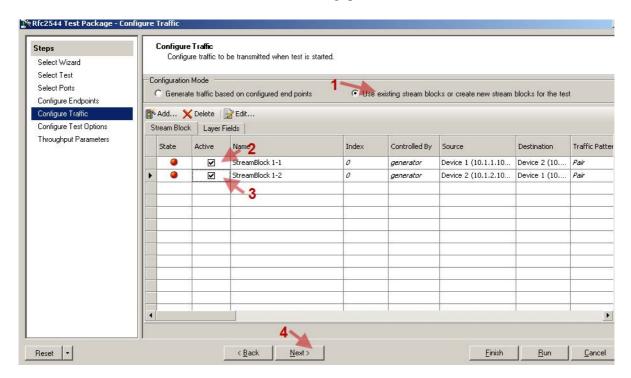




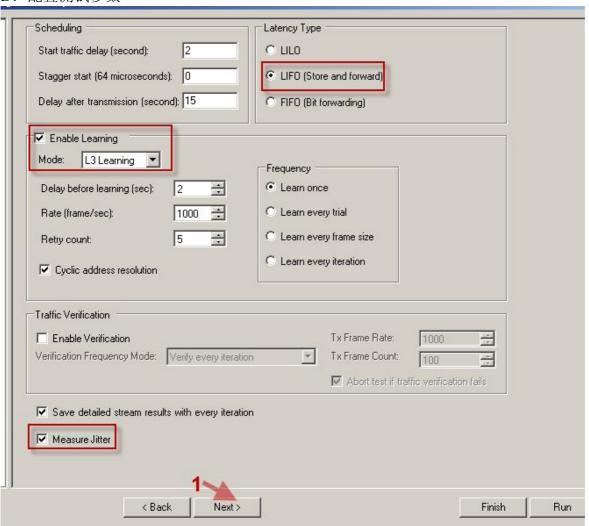




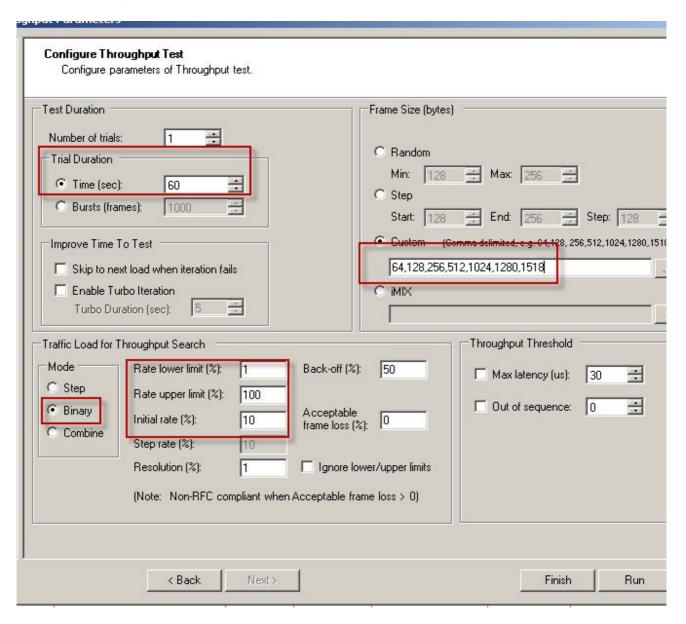
C. 调用之前配置的 boundstream 进行 throughput 测试



D. 配置测试参数



Enable Learning – 若测试三层性能则选择 L3 Learning; 若测试二层性能侧选择 L2 Learning。 Latency Type – 选择 LIFO(存储转发)。测试吞吐量的同时可以测试 Latency。 Measure Jitter – 使能该功能后,测试结果有 Jitter(抖动)。



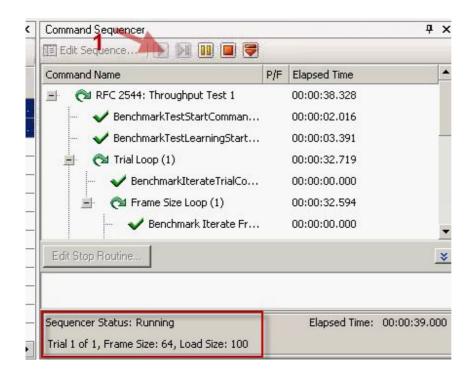
Trail Duration: 每轮测试的时间。 Binary: 采用二分法查找 throughput。

Rate Lower Limit: 二分法查找区间的最小值。 Rate Upper Limit: 二分法查找区间的最大值。

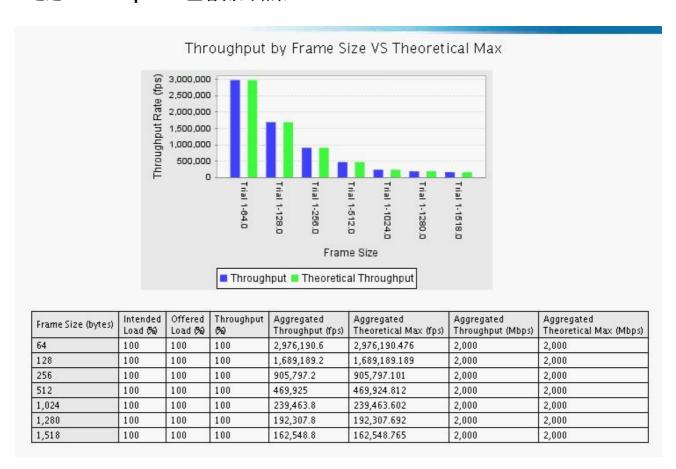
Initial Rate: 二分法查找的初始值。

Frame size: 分别测试以上七个字节长度的 throughput。

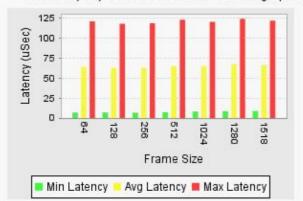
7 运行 Throughput 测试



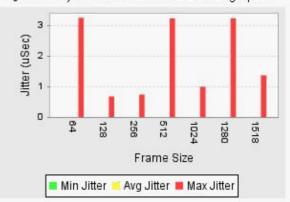
8 通过 result reporter 查看测试结果



Latency by Frame size at Throughput



Jitter by Frame size at Throughput



Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Min Loss (%)	Min Latency (uSec)	Avg Latency (uSec)	Max Latency (uSec)	Min Jitter (uSec)	Avg Jitter (uSec)	Max Jitter (uSec)
64	100	100	0	7.08	64.27	121.43	0	0	3.25
128	100	100	0	7.23	62.82	118.44	0	0	0.68
256	100	100	0	7.01	63.38	118.9	0	0	0.74
512	100	100	0	7.4	65.37	123.45	0	0	3.23
1,024	100	100	0	8.46	65.39	120.8	0	0	1
1,280	100	100	0	8.8	67.69	124.72	0	0	3.23
1,518	100	100	0	9.05	66.59	122.25	0	0	1.37