



南京广电 EPG 性能测试报告	
版本	2.0
2013-1-17	

参考文档：	无
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	名字
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测试工程师：	



南京广电 EPG  
性能测试报告

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编号	版本	内容	修改人	时间
1	V2.0	性能测试		2013-1-17



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# 1 编写目的

## 1.1 目的

为 EPG 所能承受的性能提供参考，为项目负责人和开发人员提供相关的性能指标。

## 1.2 范围

该文档适用于 EPG 项目组等。



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## 2 参考文档

无



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### 3 专业术语

Paging rate :UNIX 资源监控中指标内存页交换速率，如果该值偶尔走高，表明当时有线程竞争内存。如果持续很高，则内存可能是瓶颈。也可能是内存访问命中率低。

Request Per Second (RPS)：每秒处理请求数 - 指示服务器平均每秒钟能处理的用户事务请求数量。

CPU Utilization :CPU 的利用率.



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## 4 测试时间和投入人力

- 1) 测试时间  
2013-1-14 至 2013-1-17 总共 4 工作日。
- 2) 投入人力  
测试工程师 1 人。



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## 5 性能测试

### 5.1 测试范围

注：测试环境为运维人员搭建；测试范围为 EPG 技术开发负责人陈圣文提供；硬件和网络环境均为南京广电提供。

(1) 首页

<http://172.31.200.12>

(2) 导航页

<http://172.31.200.12/list>

(3) 影片库

<http://172.31.200.12/vod>

(4) 频道列表

<http://172.31.200.12/channel/list>

(5) 搜索页

<http://172.31.200.12/search>

(6) 媒资详情

<http://172.31.200.12/wiki/show/slug/破碎之城>





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(7) 专题详情

<http://172.31.200.12/theme/show/tid/29>

## 5.2 并发测试

场景条件设置

- 1) 立即初始化所有虚拟用户
- 2) 初始化完成后立即执行，直到运行完

## 5.3 执行测试

并发不同虚拟用户数，关闭服务器端缓存，以此验证最优的性能。

### 5.3.1 首页

#### 5.3.1.1 并发 150 虚拟用户



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## 1) 总体概述

### Statistics Summary

<a href="#">Maximum Running Users:</a>	150
<a href="#">Total Throughput (bytes):</a>	64,227,144
<a href="#">Average Throughput (bytes/second):</a>	3,568,175
<a href="#">Total Hits:</a>	6,536
<a href="#">Average Hits per Second:</a>	363.111

[View HTTP Responses Summary](#)

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test	0	0	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15

### Transaction Summary

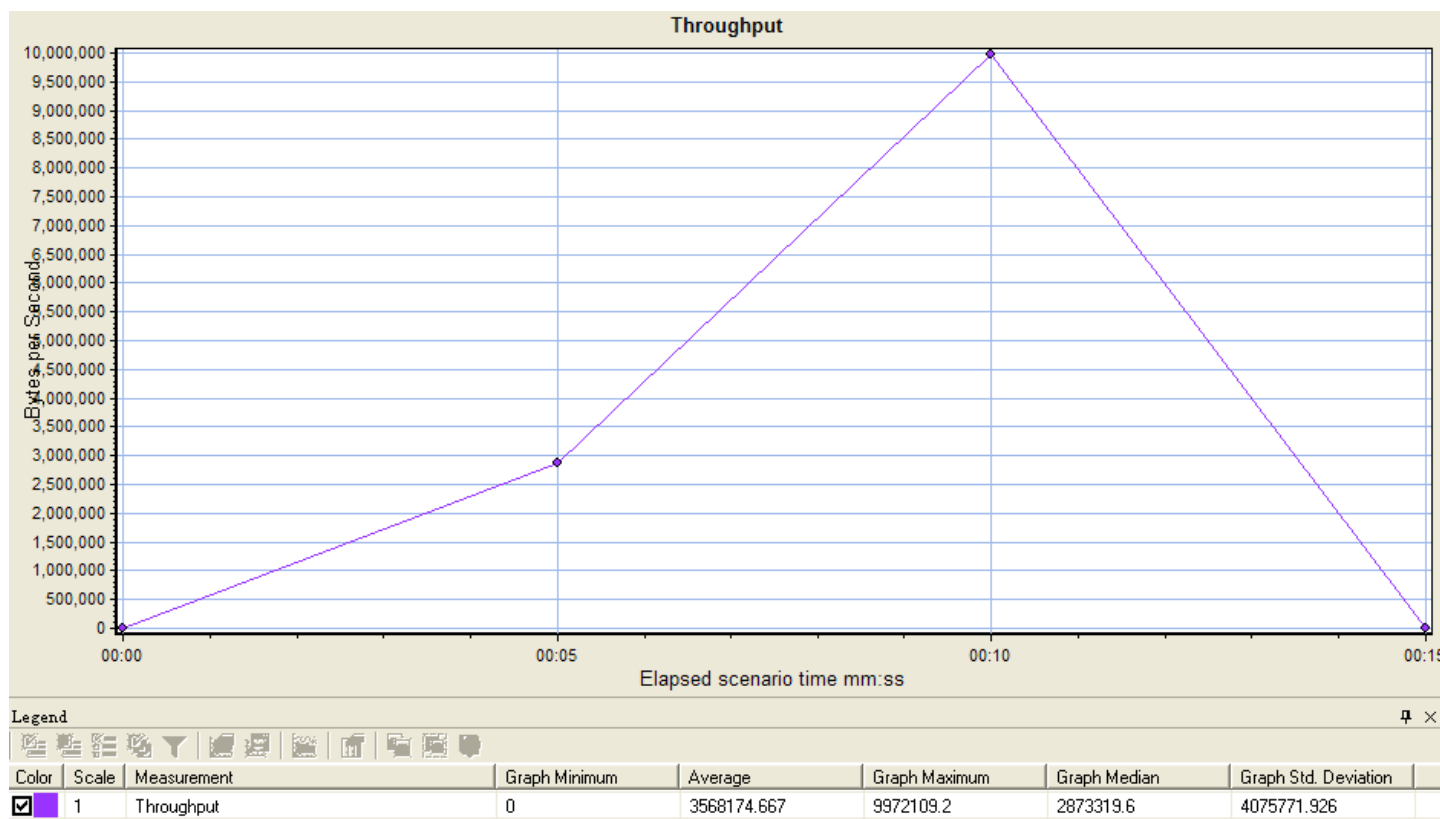
[Transactions:](#) Total Passed: 452 Total Failed: 0 Total Stopped: 0

[Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>	0	1.844	6.931	14.101	1.768	8.559	152	0	0
<a href="#">vuser_end Transaction</a>	0	0	0	0	0	0	150	0	0
<a href="#">vuser_init Transaction</a>	0	0	0	0.002	0	0.002	150	0	0

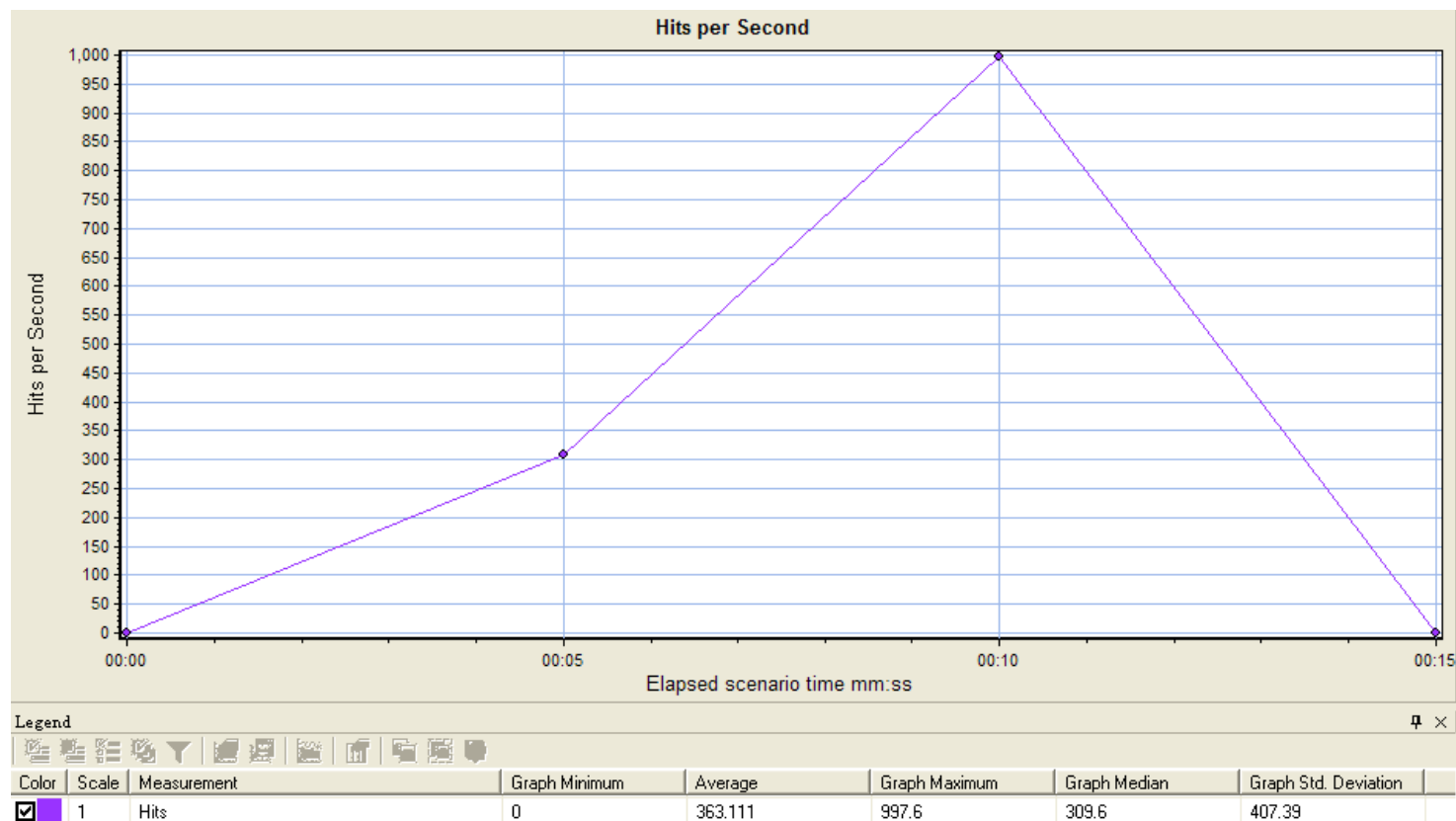


## (2)吞吐量



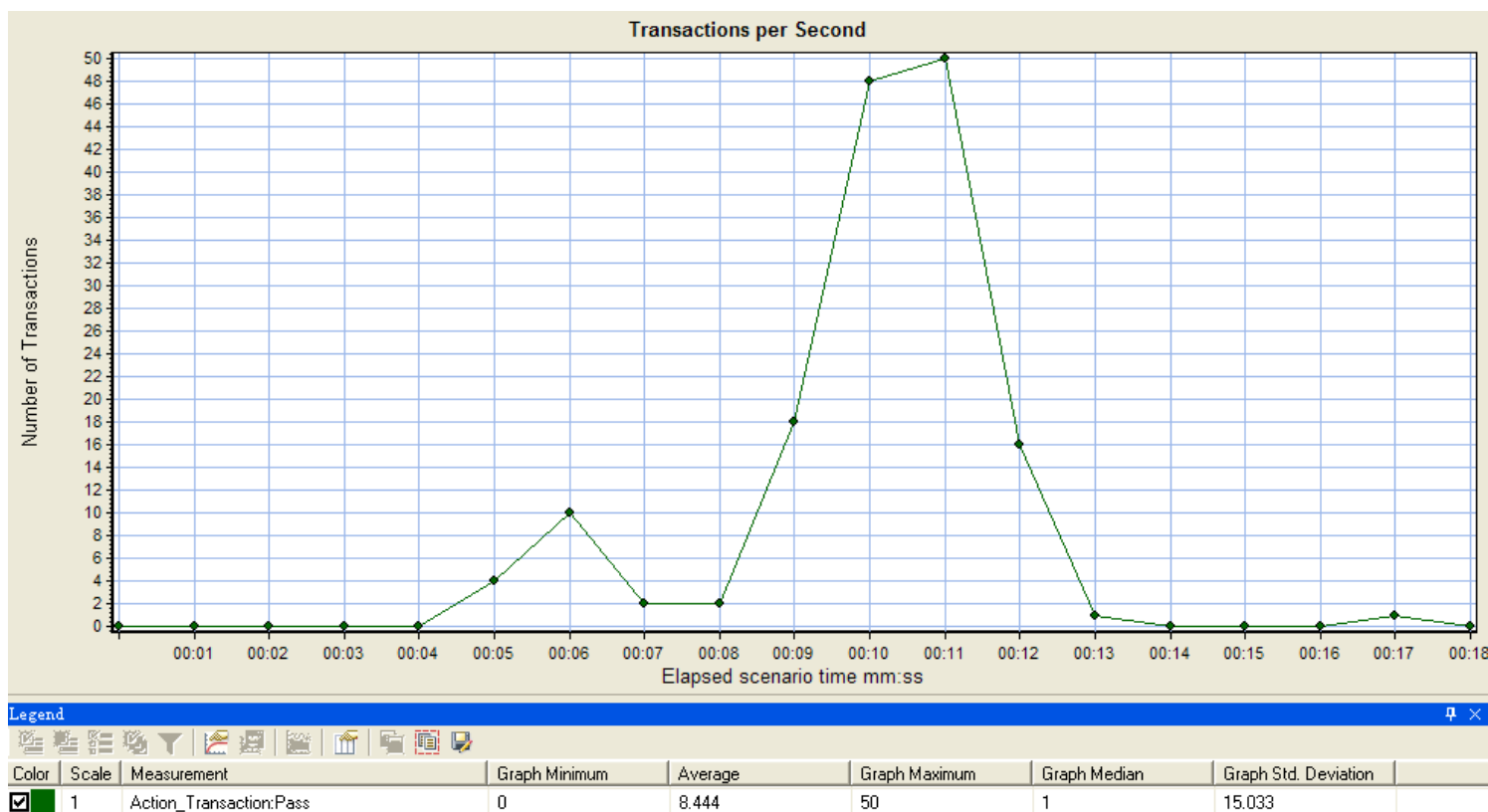


### (3)点击率



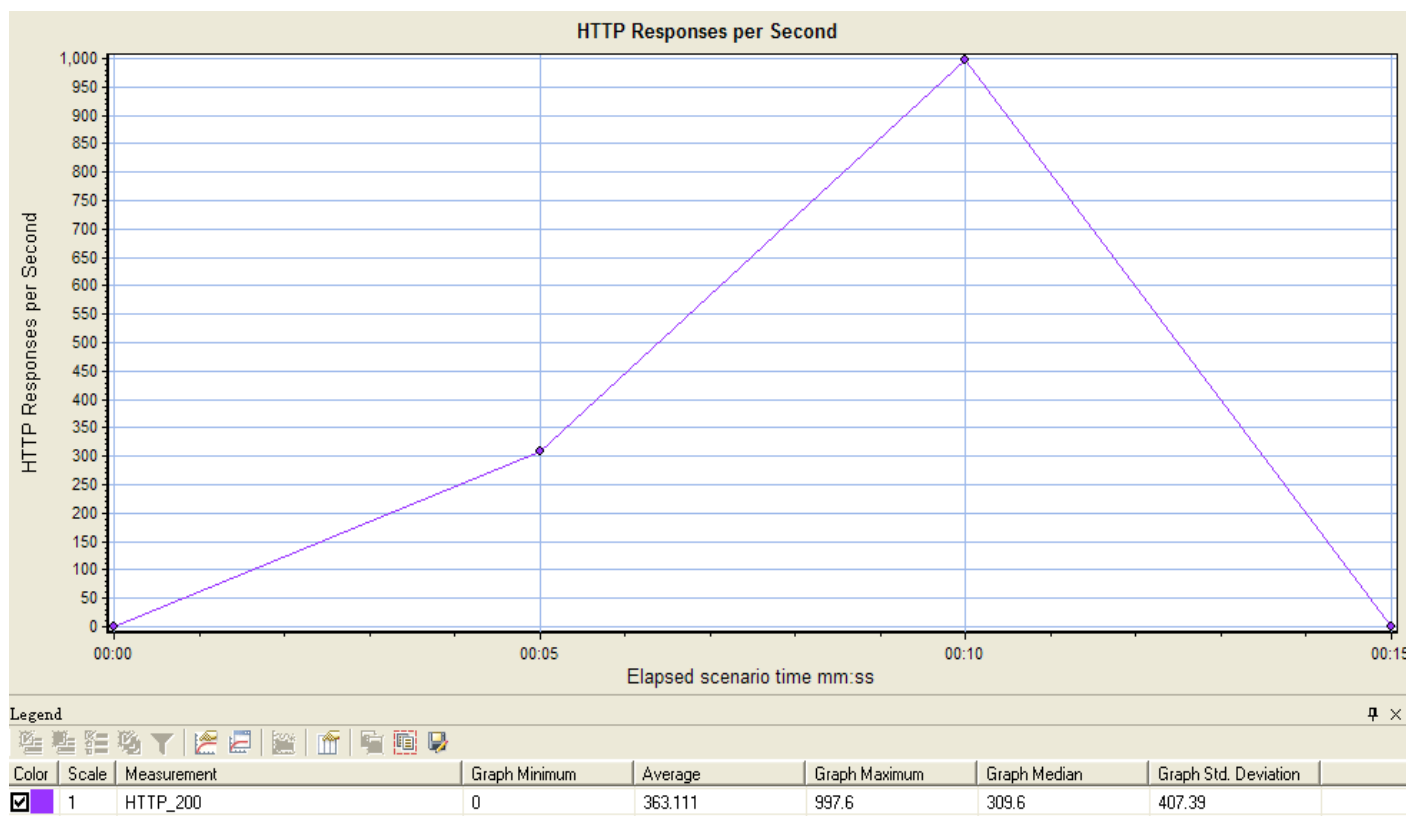


#### (4)TPS



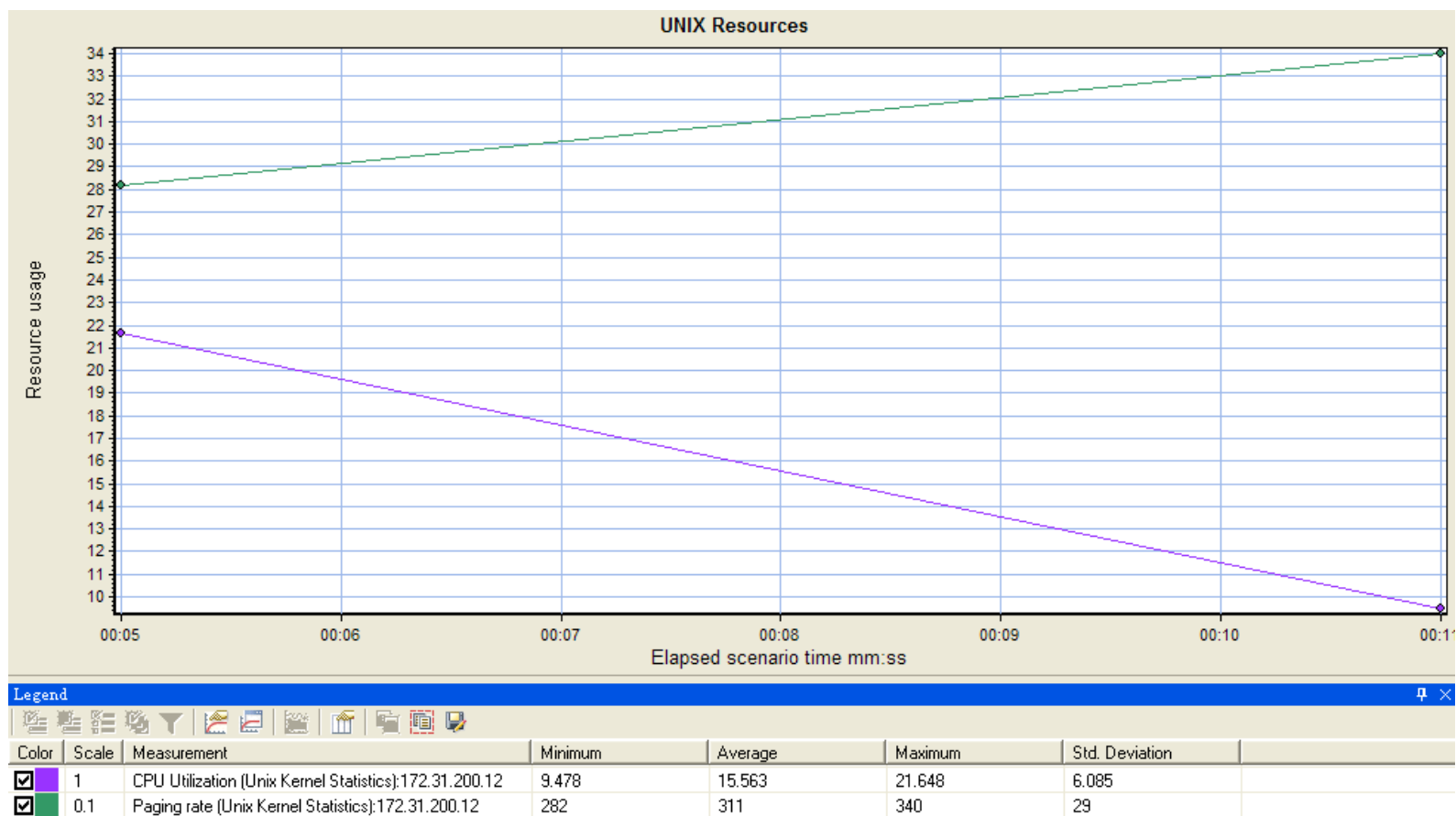


## (5)RPS(Request Per Second)





## (6) Unix 系统资源





(7)列表

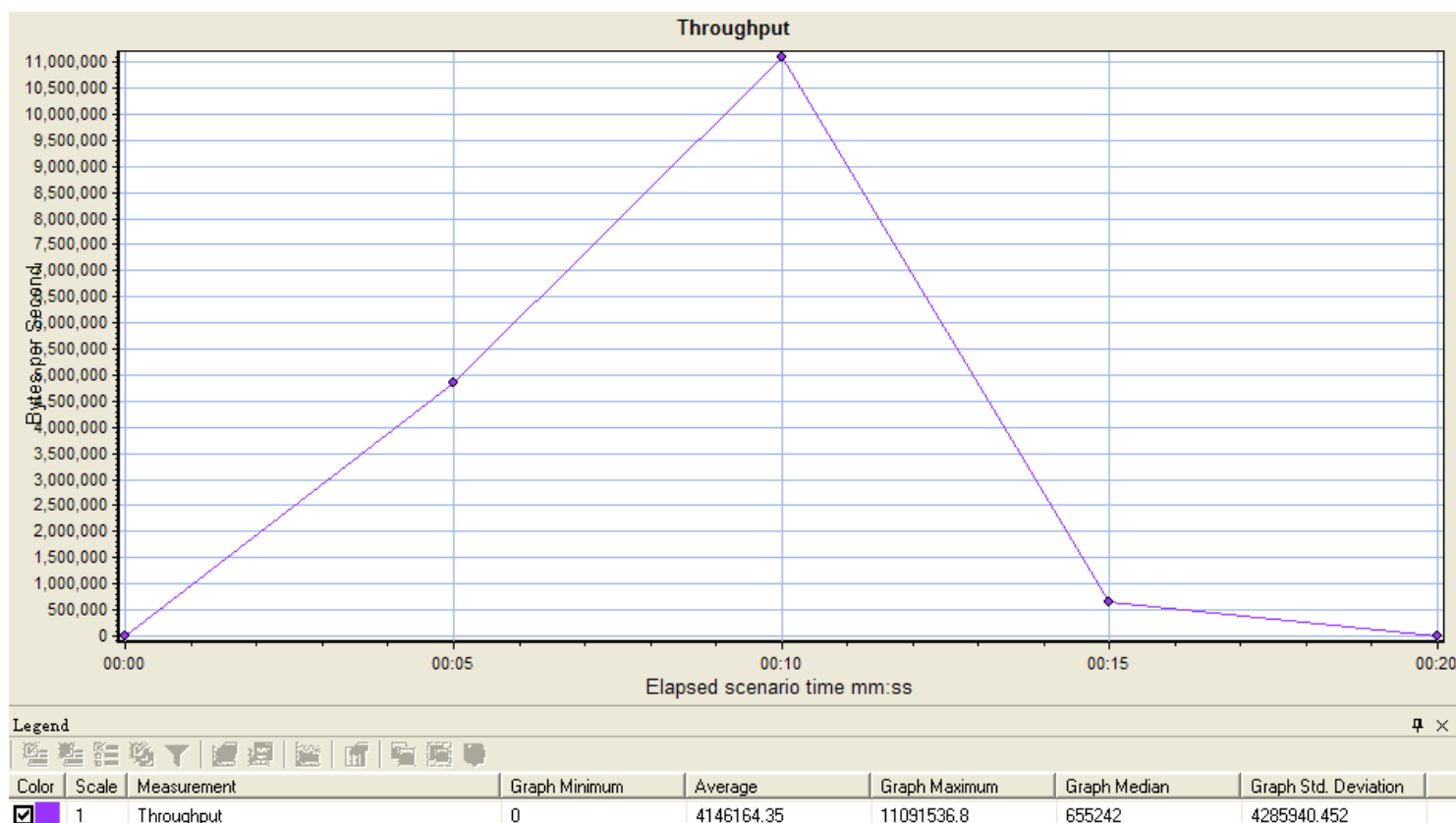
并发数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Second s)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (min->aver->max)
150	1.844	6.931	14.101	64,227,144	0	363.111	997.6	0	8.444	50	0	363.111	997.6	9.478, 15.563, 21.648	28.2, 31.1, 34.0





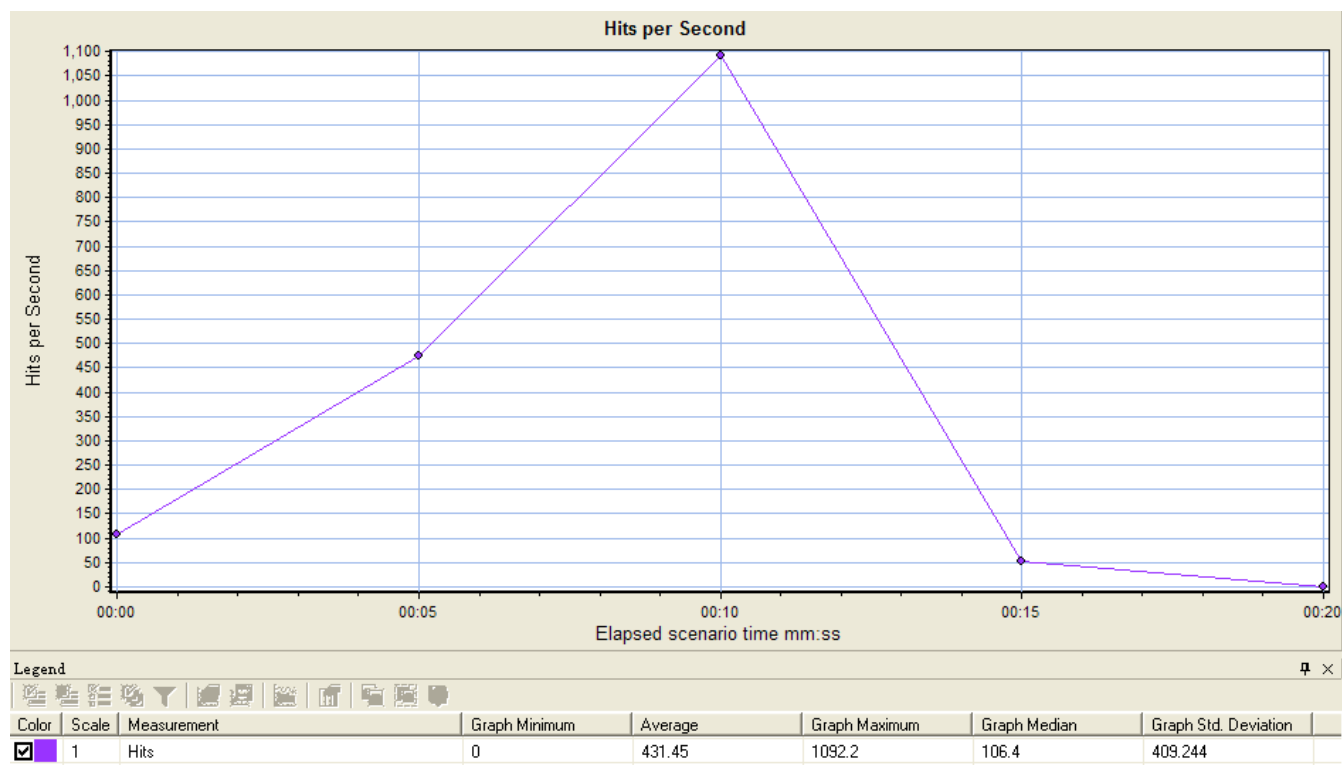


## (2)吞吐量



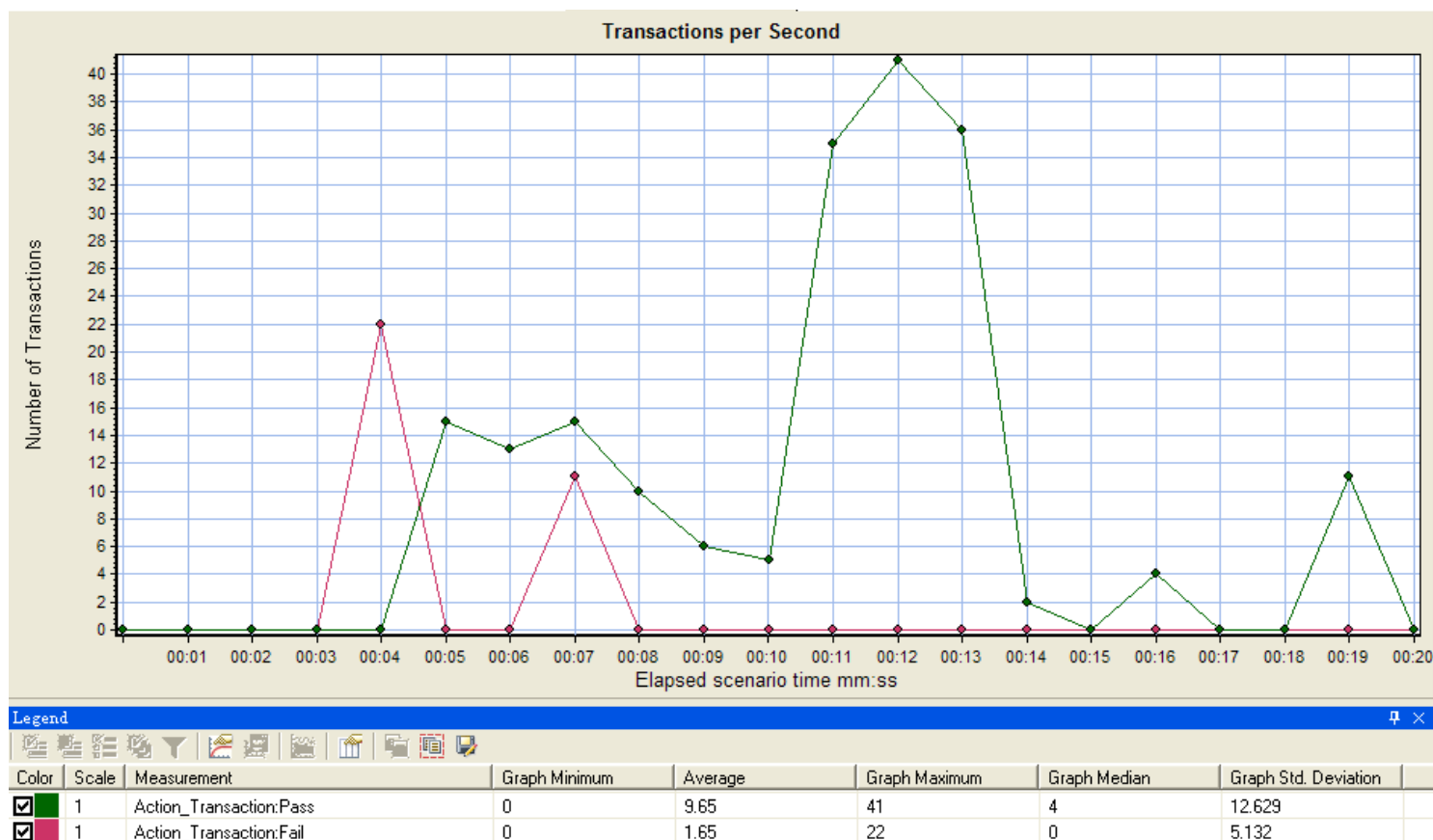


### (3)点击率



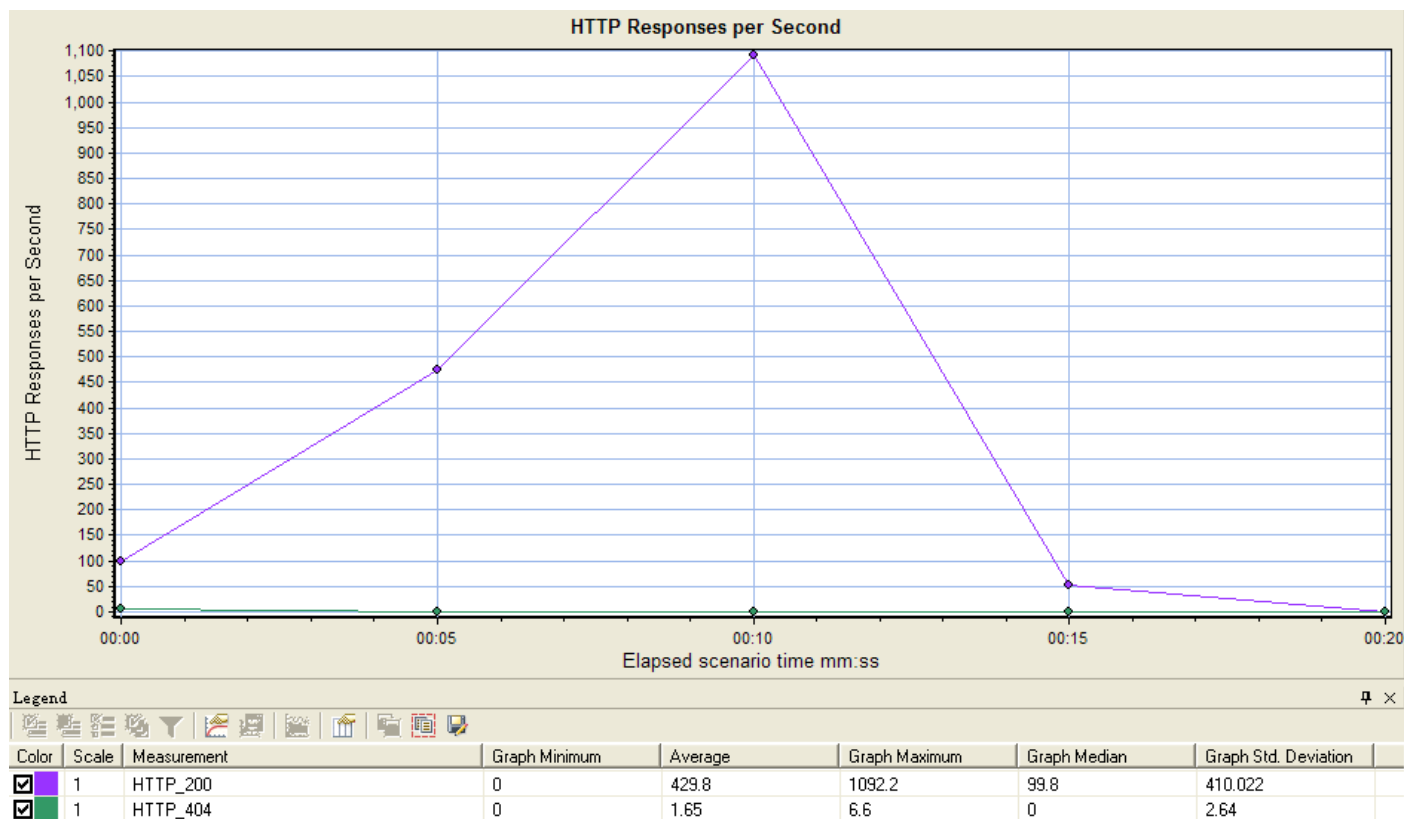


#### (4)TPS



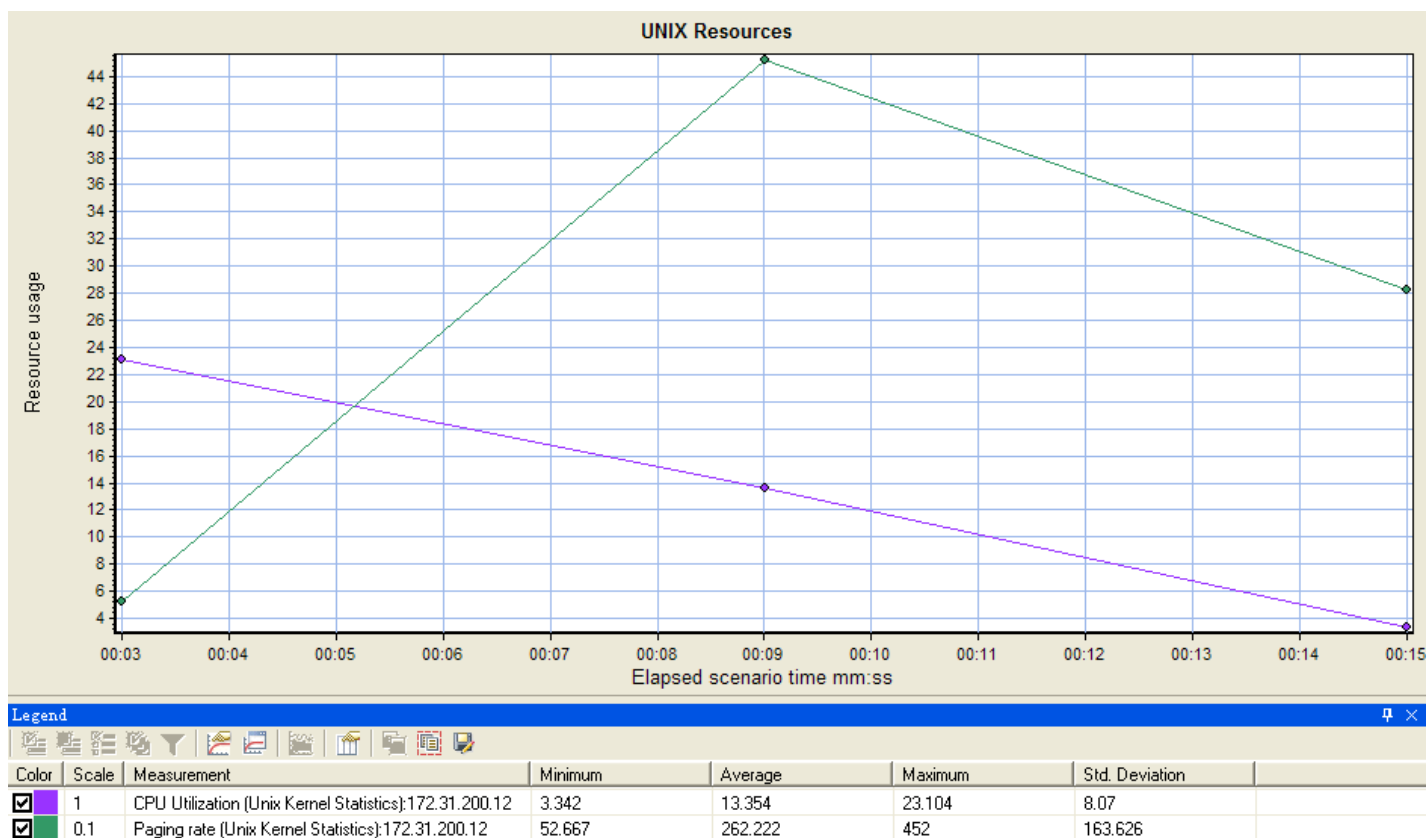


## (5)RPS(Request Per Second)





## (6)Unix 系统资源





## (7)列表

并发数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
150	1.844	6.931	14.101	64,227,144	0	363.111	997.6	0	8.444	50	0	363.111	997.6	9.478, 15.563, 21.648	28.2, 31.1, 34.0
180	1.199	9.164	15.002	82,923,287	0	431.45	1092.2	0	9.65	41	0	429.8	1092.2	3.342, 13.354, 23.104	52.667, 262.22, 452

## 小结:

在运行 180 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：  
2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resour



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ce temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request : "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 23.104%, Paging Rate 最高为  $452 * 0.1 = 45.2$ , 吞吐量最大为: 82,923,287Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 首页该单台所能承受的并发最好情况为 180.

## 5.3.2 导航页

### 5.3.2.1 并发 200 虚拟用户





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1) 总体概述



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### Statistics Summary

<a href="#">Maximum Running Vusers:</a>	200	
<a href="#">Total Throughput (bytes):</a>	26,178,012	
<a href="#">Average Throughput (bytes/second):</a>	1,454,334	
<a href="#">Total Hits:</a>	4,135	
<a href="#">Average Hits per Second:</a>	229.722	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

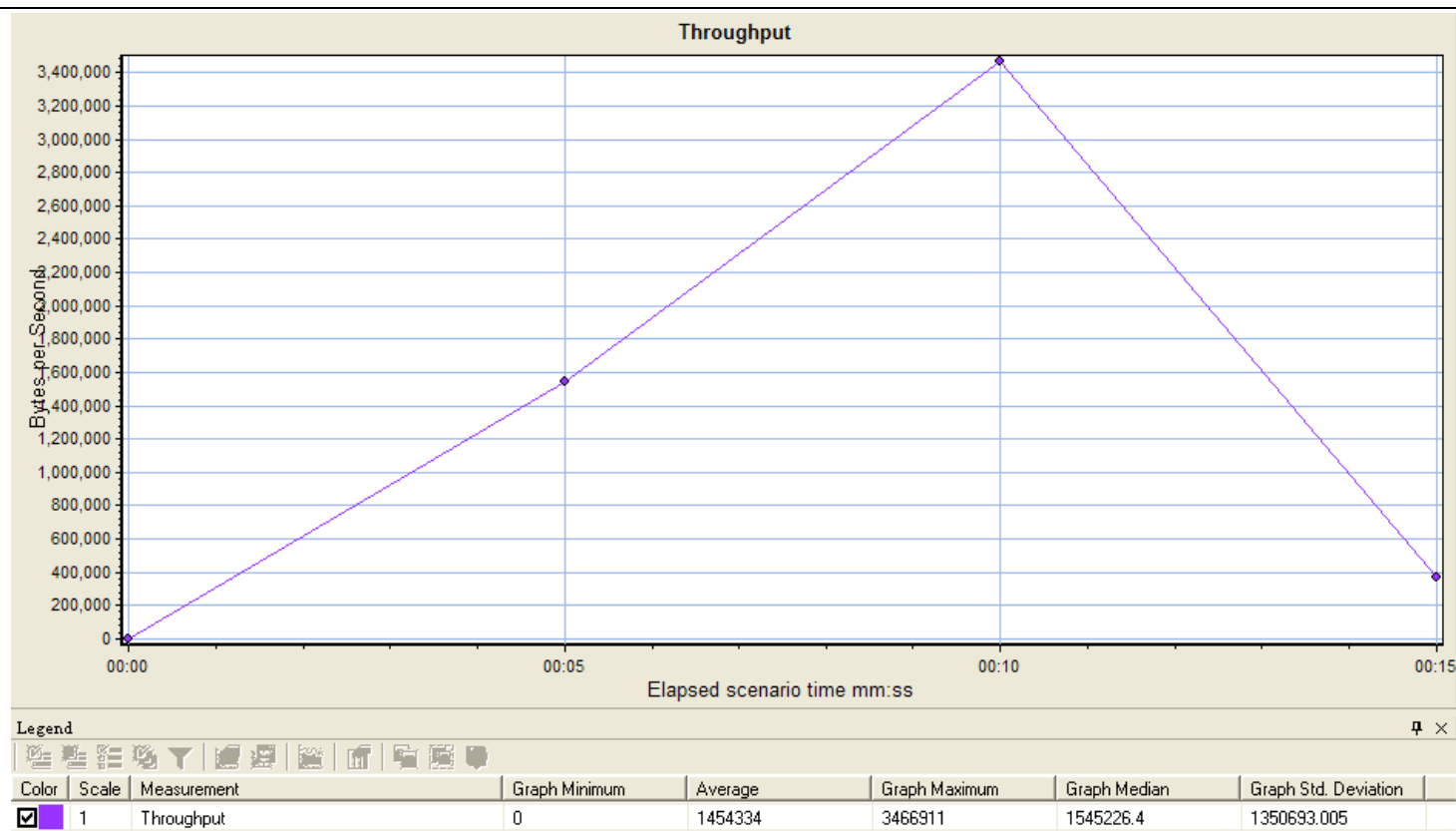
Measurement Name	Time Ranges			
Application Under Test	0	0	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15

### Transaction Summary

[Transactions:](#) Total Passed: 600 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		7.933	9.915	13.395	1.044	10.623	200	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	200	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	200	0	0

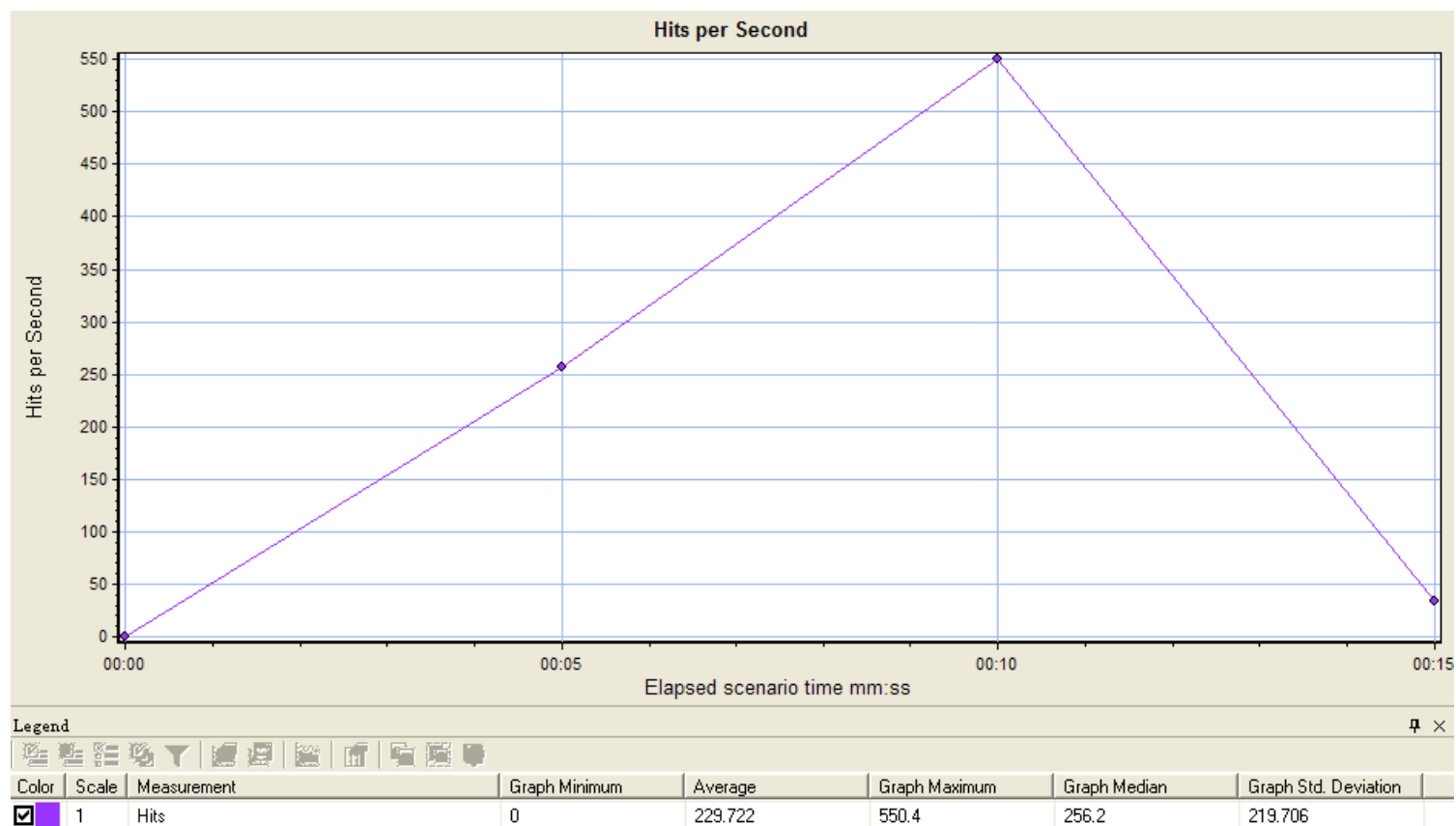
(2)吞吐量



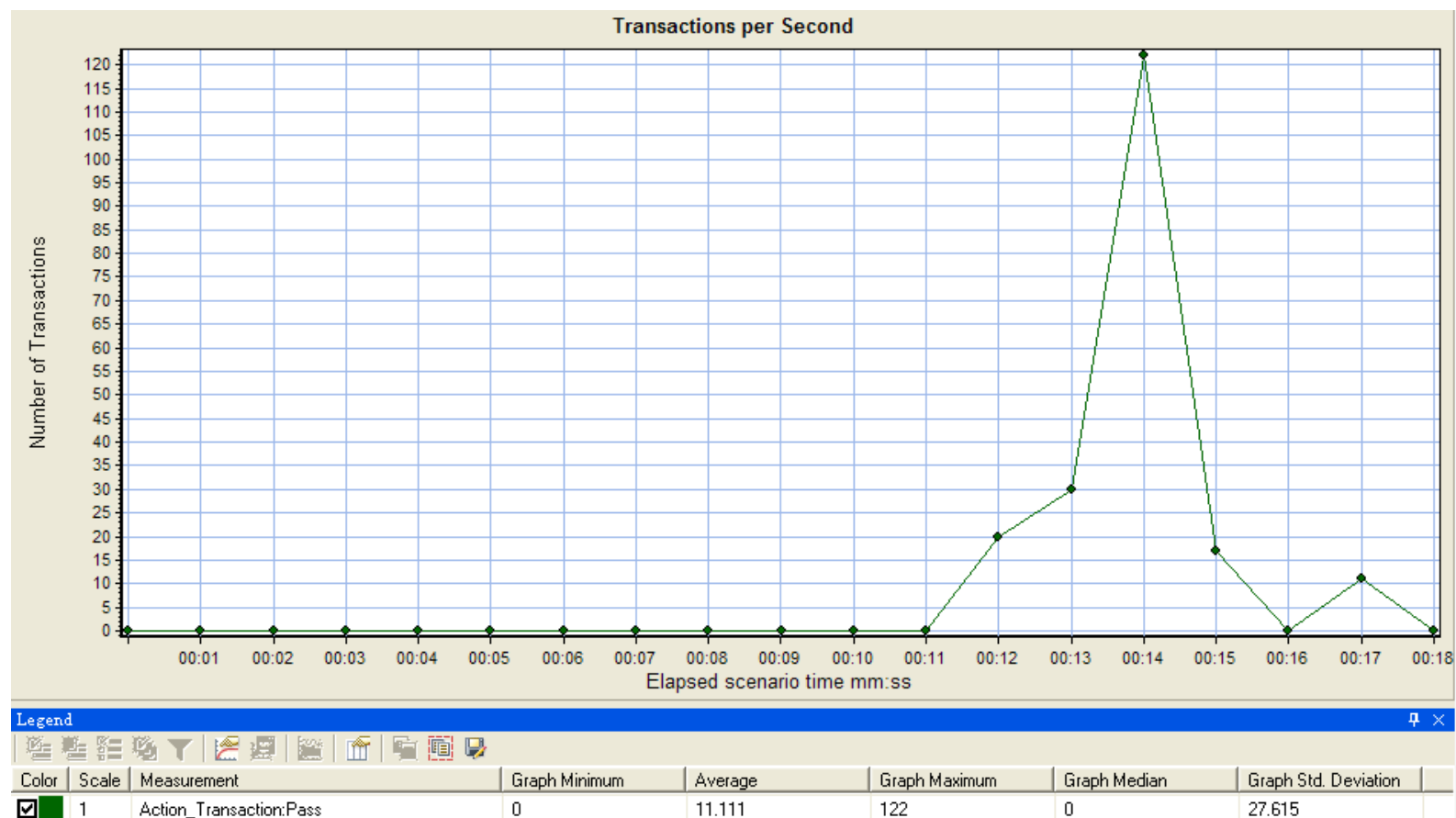
### (3)点击率



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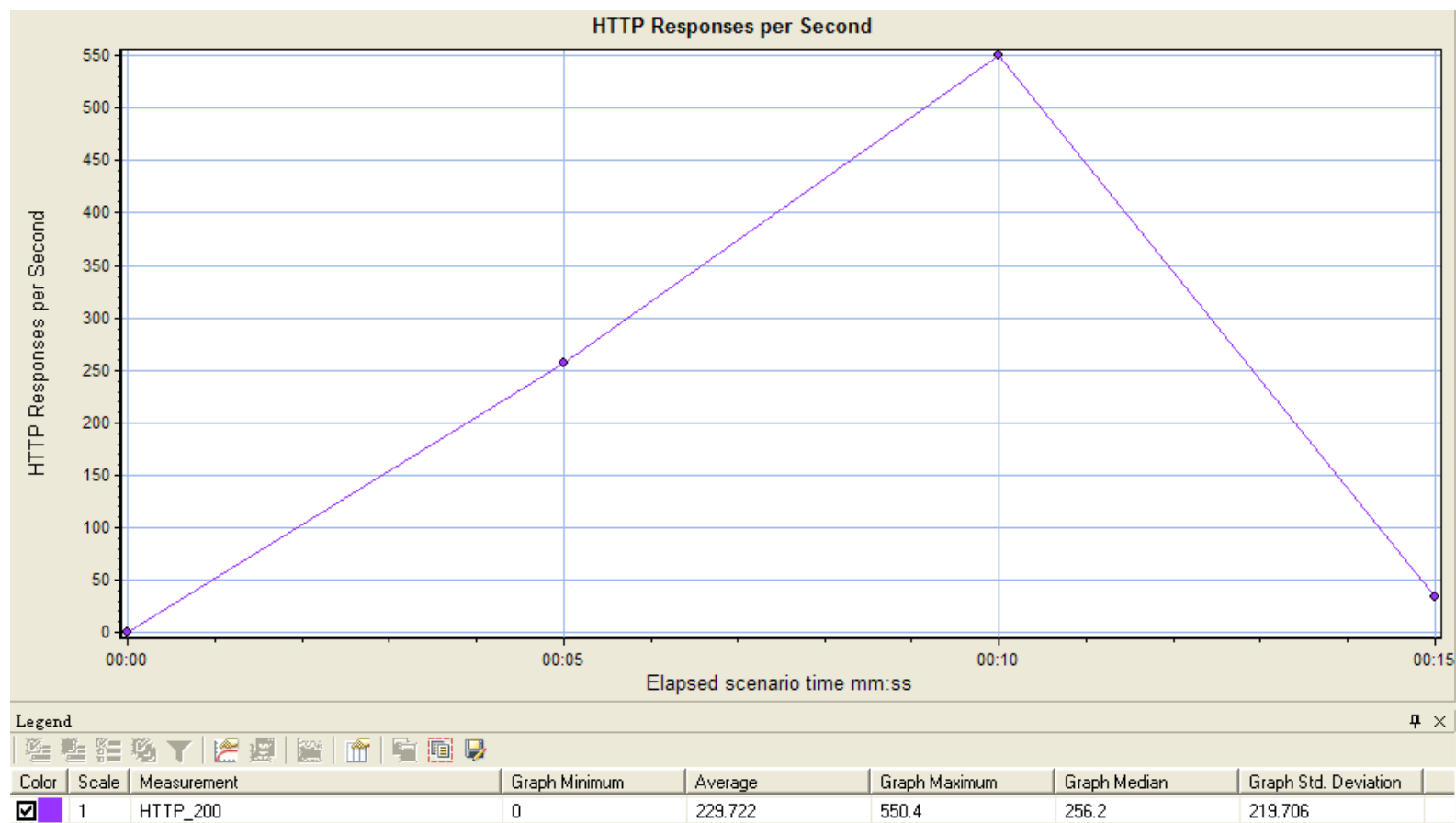
(4)TPS



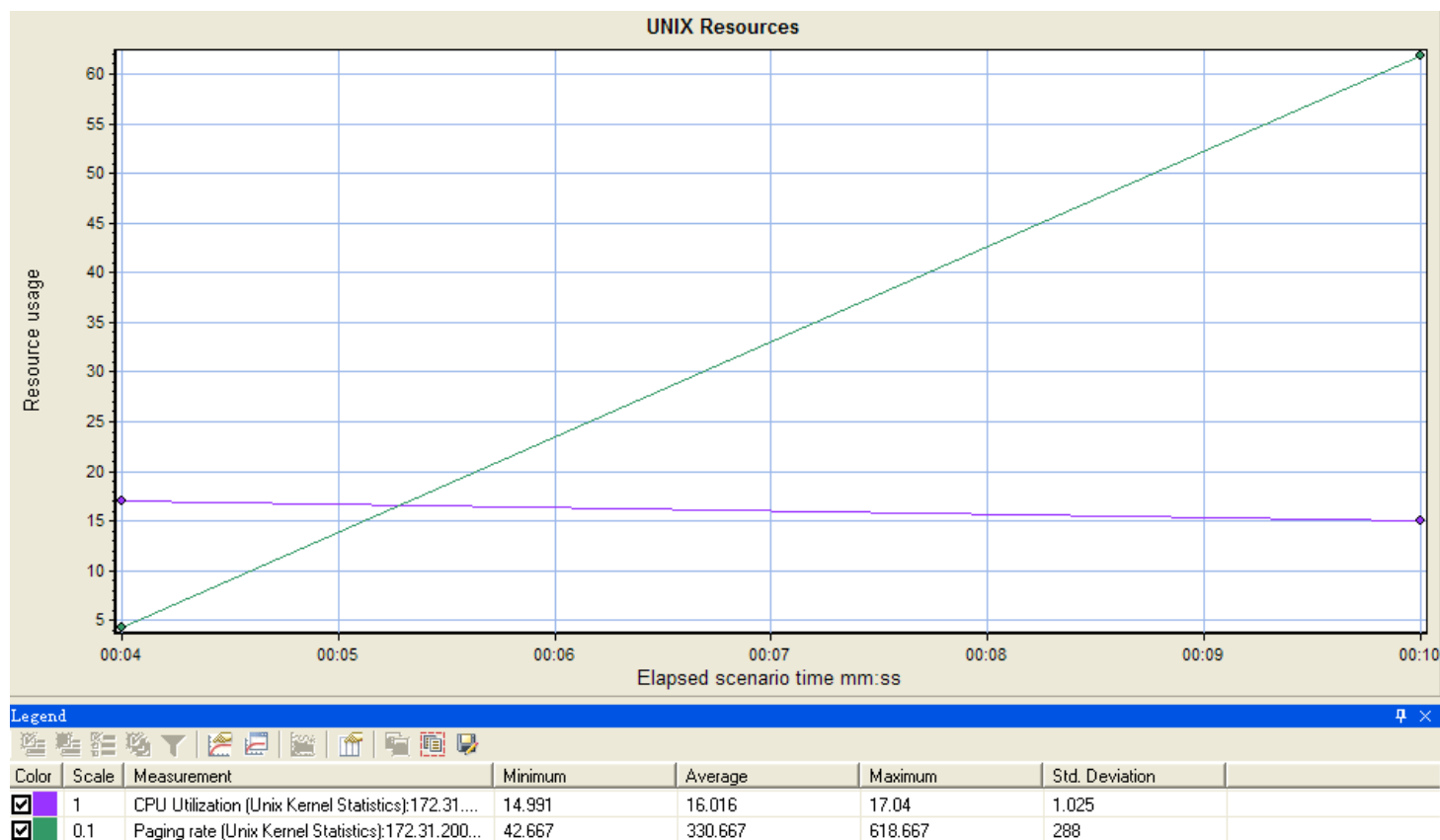
(5)RPS(Request Per Second)



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## (6)Unix 系统资源



(7)列表



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并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver ->max)
200	7.933	10.623	13.395	26,178,012	0	229.722	550.4	0	11.111	122	0	229.722	550.4	14.991, 16.061, 17.04	42.667, 330.667, 618.667

### 5.3.2.1 并发 220 虚拟用户





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## (1)整体概述

### Statistics Summary

<a href="#">Maximum Running Vusers:</a>	220	
<a href="#">Total Throughput (bytes):</a>	40,162,159	
<a href="#">Average Throughput (bytes/second):</a>	2,868,726	
<a href="#">Total Hits:</a>	5,369	
<a href="#">Average Hits per Second:</a>	383.5	<a href="#">View HTTP Responses Summary</a>
<a href="#">Total Errors:</a>	76	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges		
Application Under Test	0	15	0
Errors	00:00:00	00:00:05	00:00:10

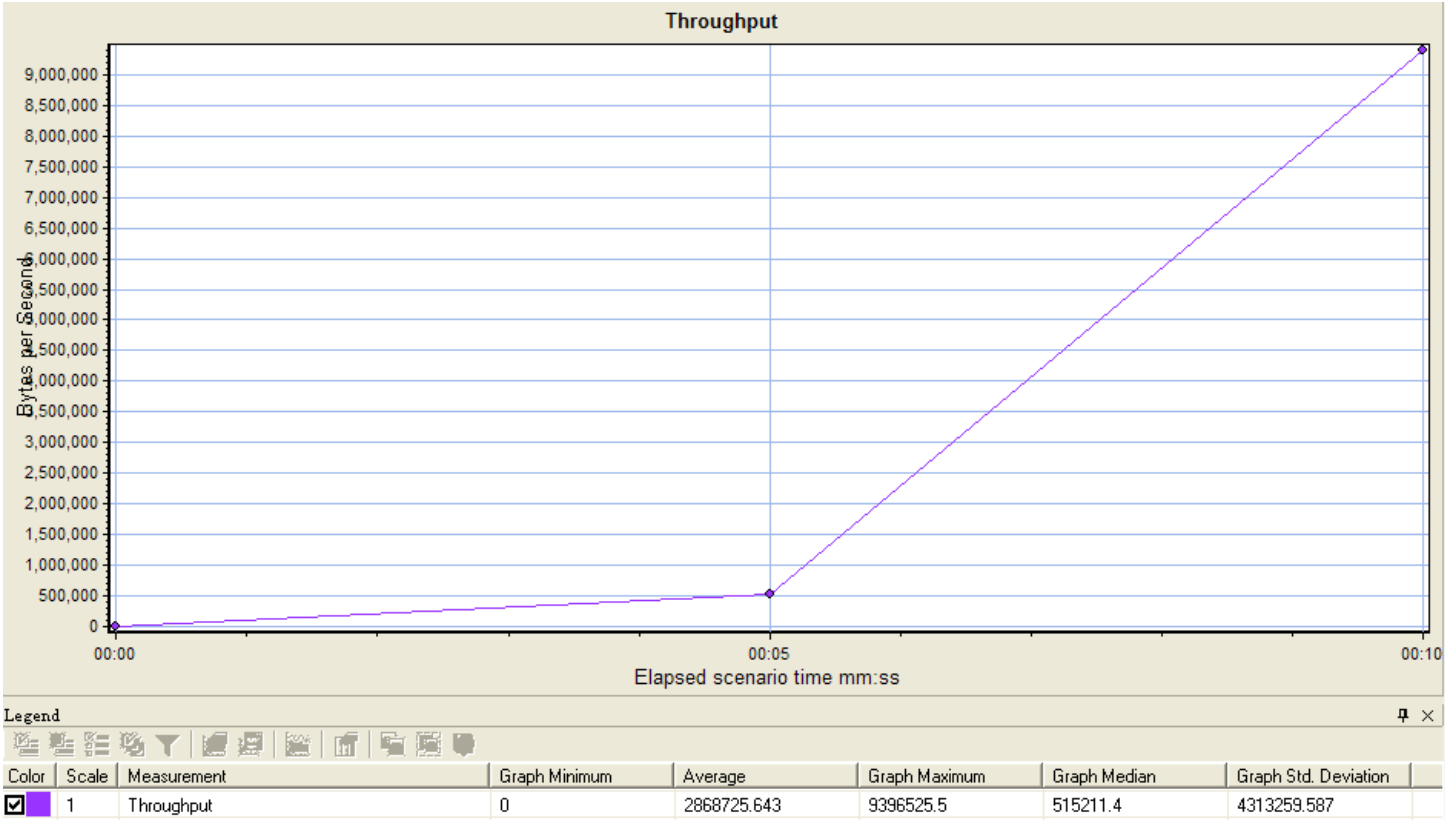
### Transaction Summary

[Transactions:](#) Total Passed: 628 Total Failed: 76 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		3.733	5.673	7.331	0.89	6.981	188	76	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	220	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.006	0.001	0.006	220	0	0

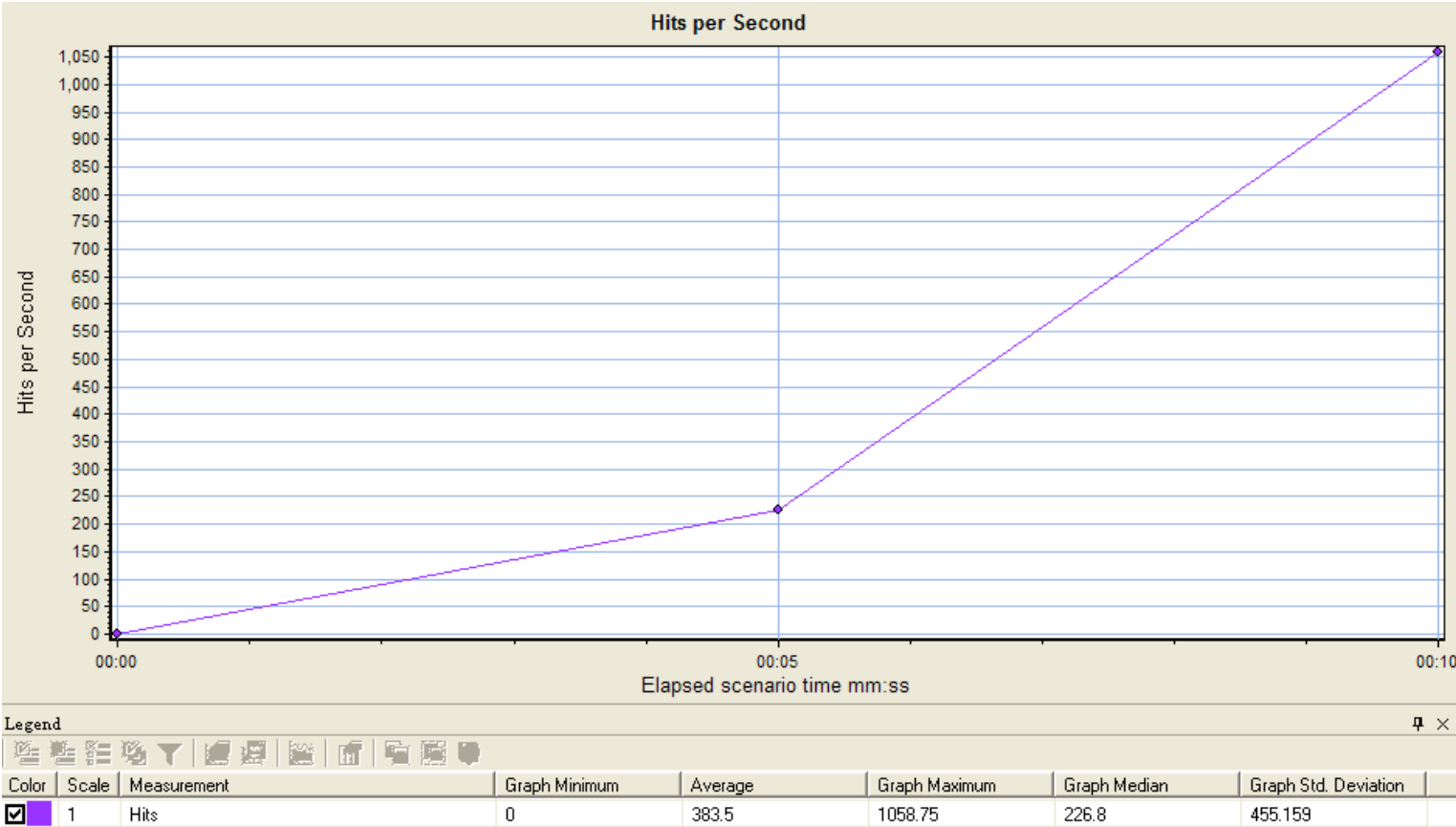


(2)吞吐量



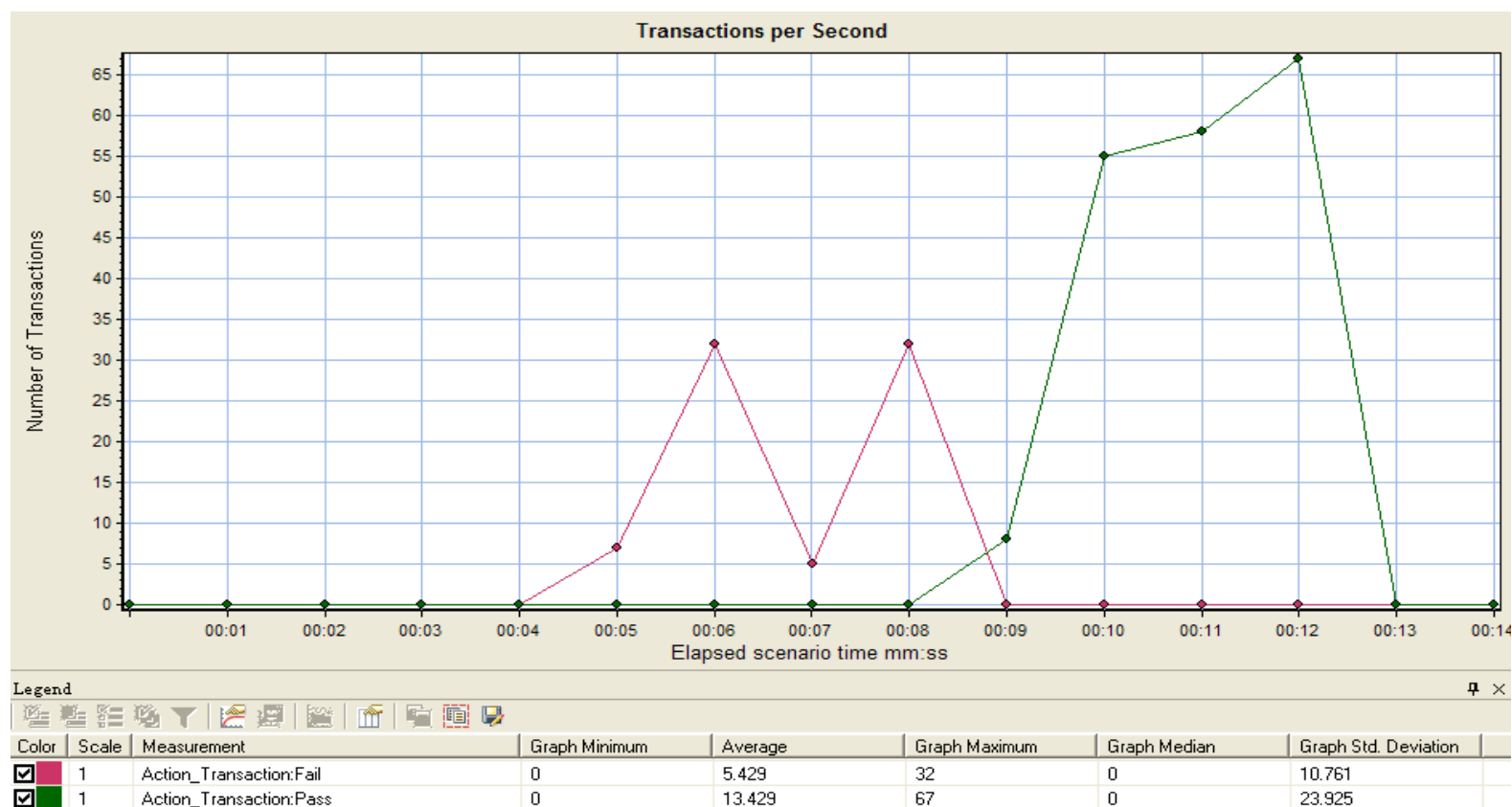


### (3)点击率





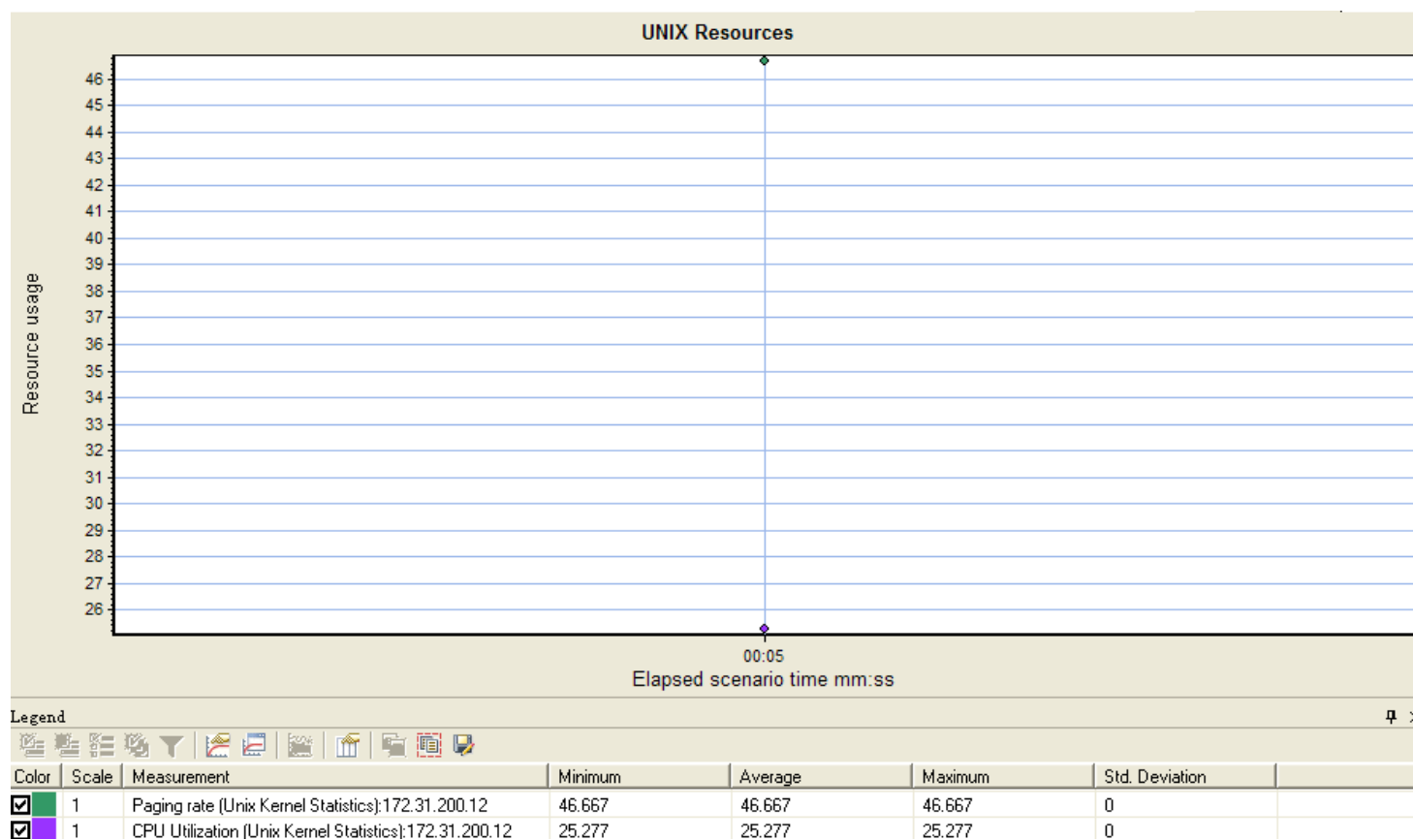
#### (4)TPS





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## (5)Unix 系统资源





## (7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
200	7.933	10.623	13.395	26,178,012	0	229.722	550.4	0	11.111	122	0	229.722	550.4	14.991, 16.061, 17.04	42.667, 330.667, 618.667
220	3.733	6.981	7.331	40,162,159	0	383.5	1058.75	0	13.429	67	0	378.071	1058.75	25.277	46.667

## 小结

在运行 220 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：



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2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resource temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 25.277%, Paging Rate 最高为  $46.667 * 0.1 = 4.667$ , 吞吐量最大为: 40,162,159Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 导航页该单台所能承受的并发最好情况为 200.



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### 5.3.3 影片库

#### 5.3.3.1 并发 180 虚拟用户

##### (1)整体概述





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## Statistics Summary

<b>Maximum Running Vusers:</b>	180	
<b>Total Throughput (bytes):</b>	39,985,615	
<b>Average Throughput (bytes/second):</b>	3,332,135	
<b>Total Hits:</b>	6,697	
<b>Average Hits per Second:</b>	558.083	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges		
Application Under Test	0	0	0
Errors	00:00:00	00:00:05	00:00:10

## Transaction Summary

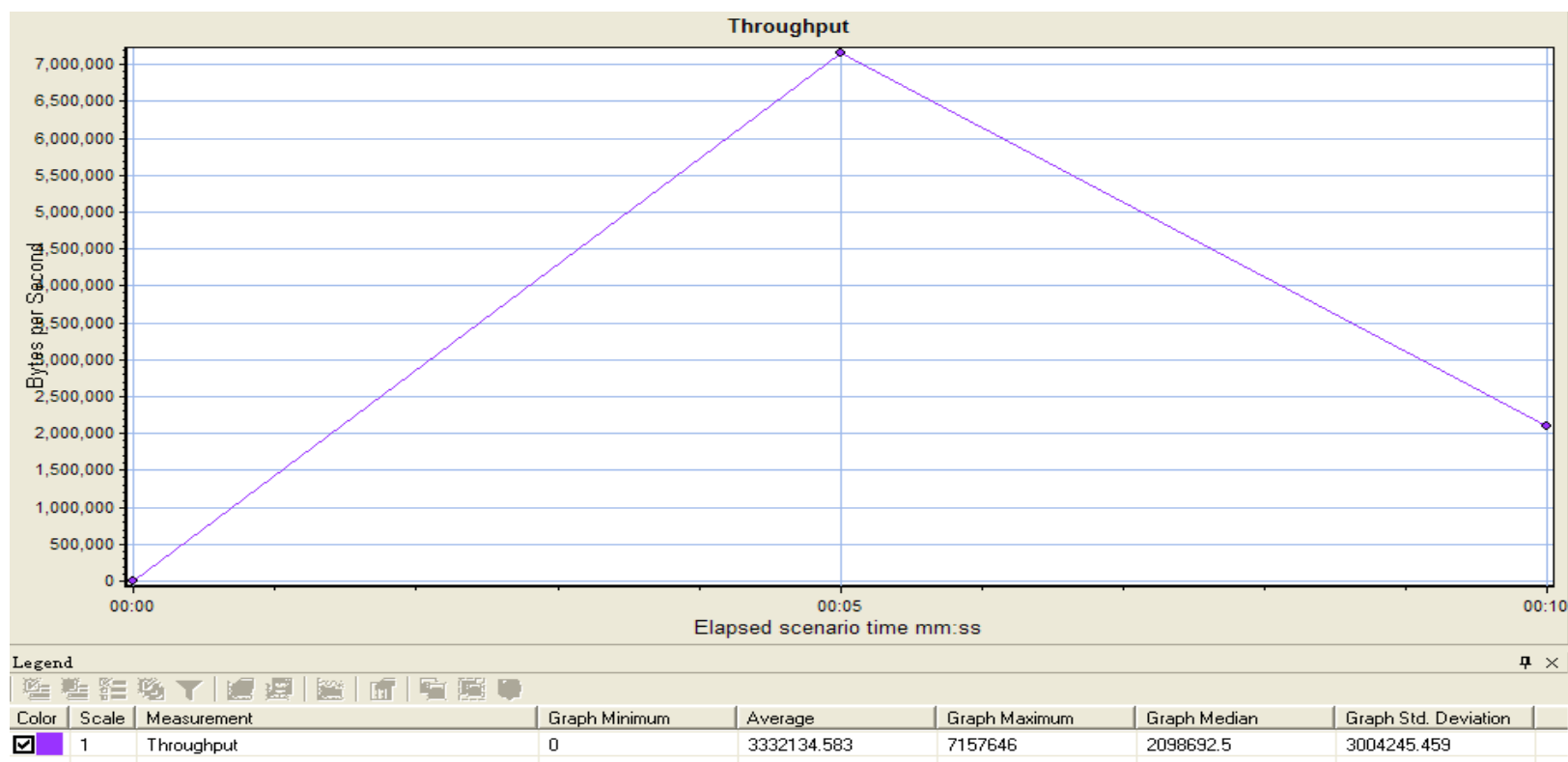
**Transactions:** Total Passed: 541 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		1.217	3.778	6.94	1.08	5.233	181	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	180	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	180	0	0



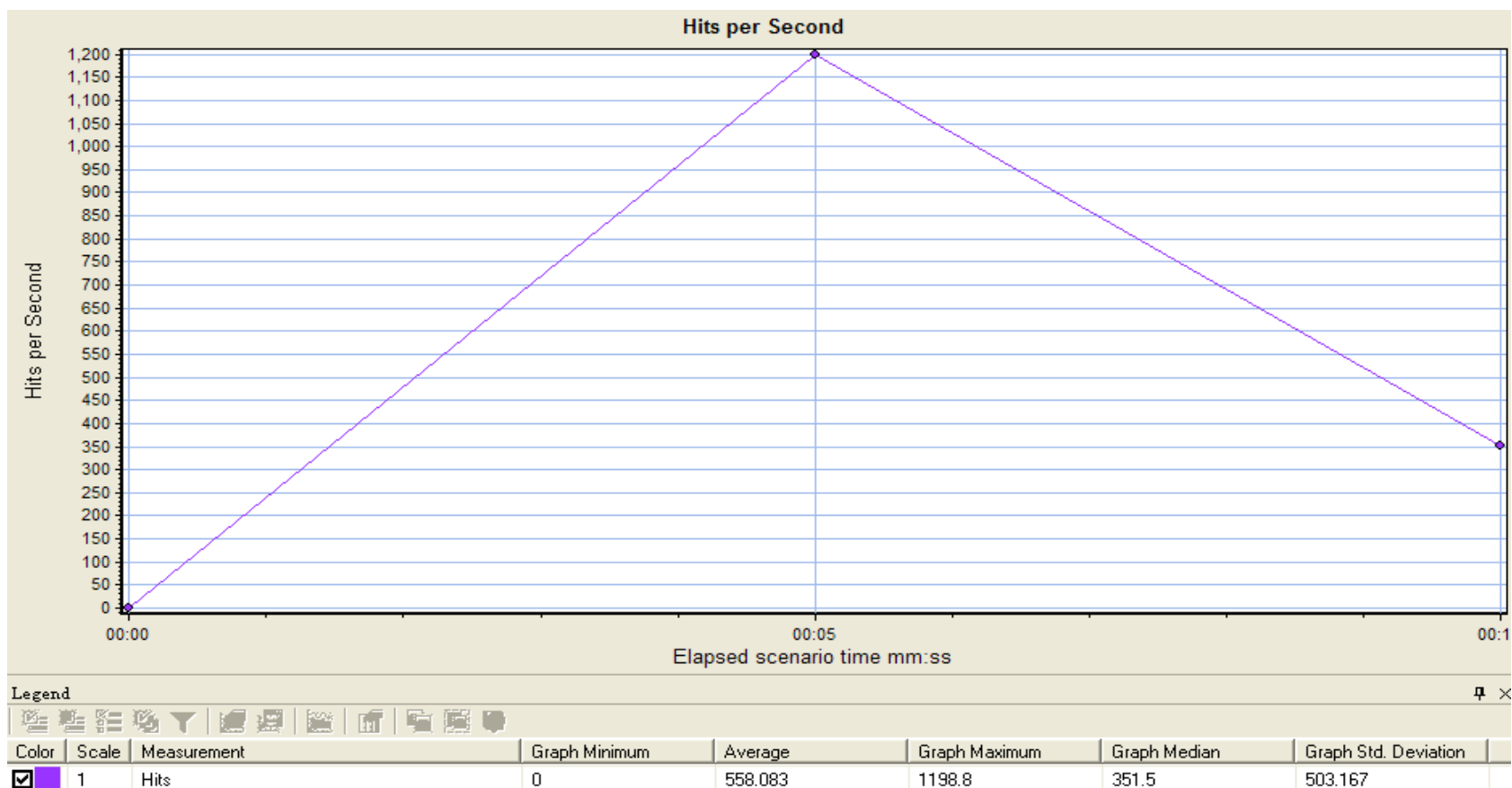
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## (2)吞吐量



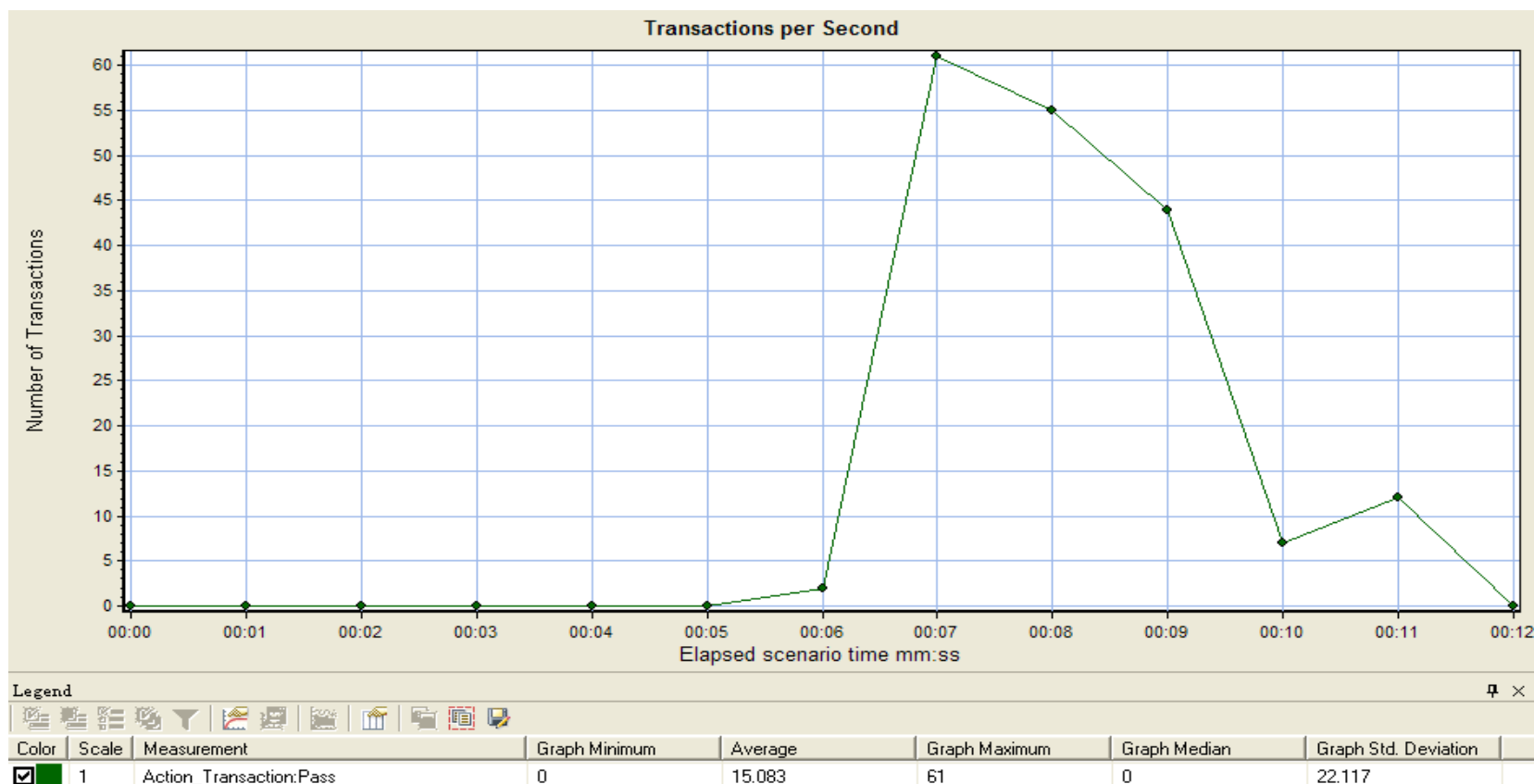


### (3) 点击率



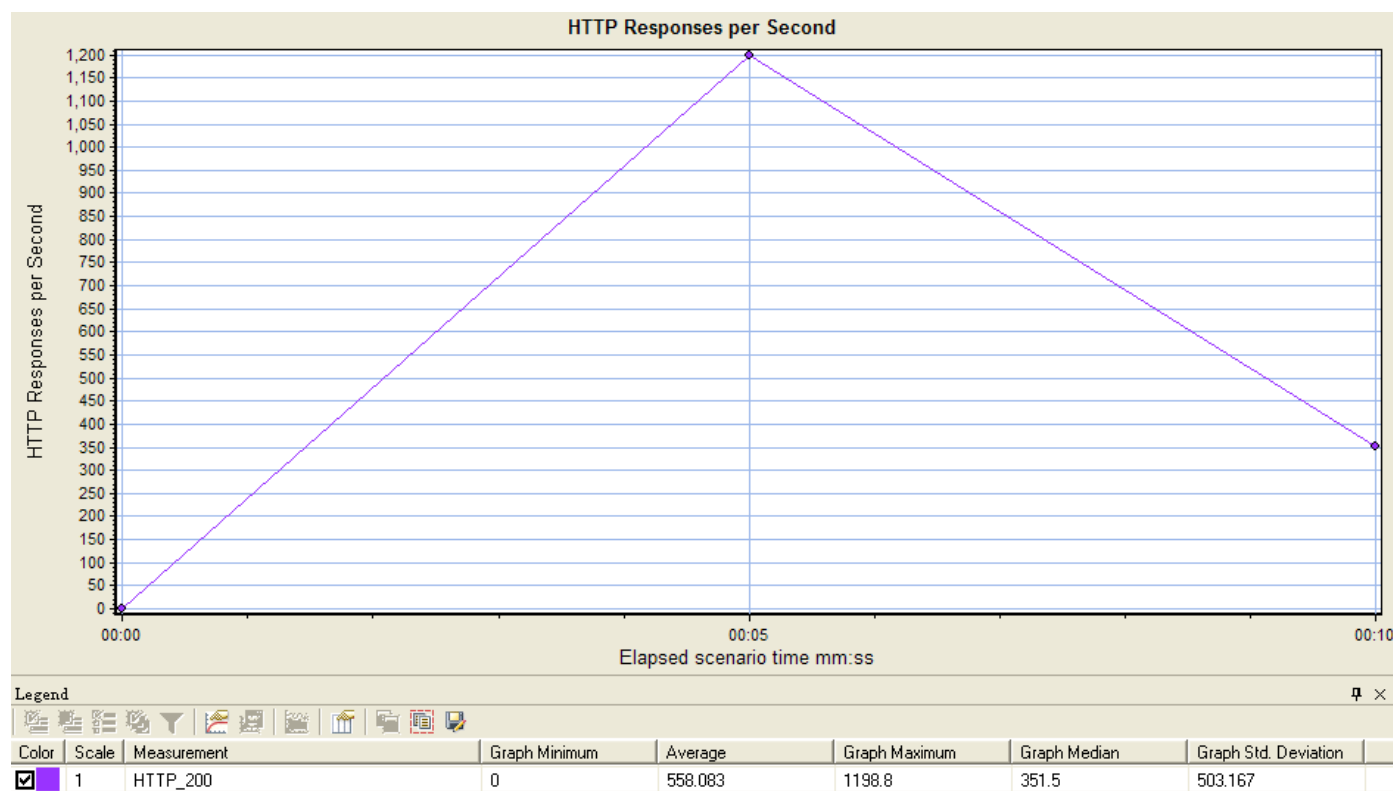


#### (4) TPS





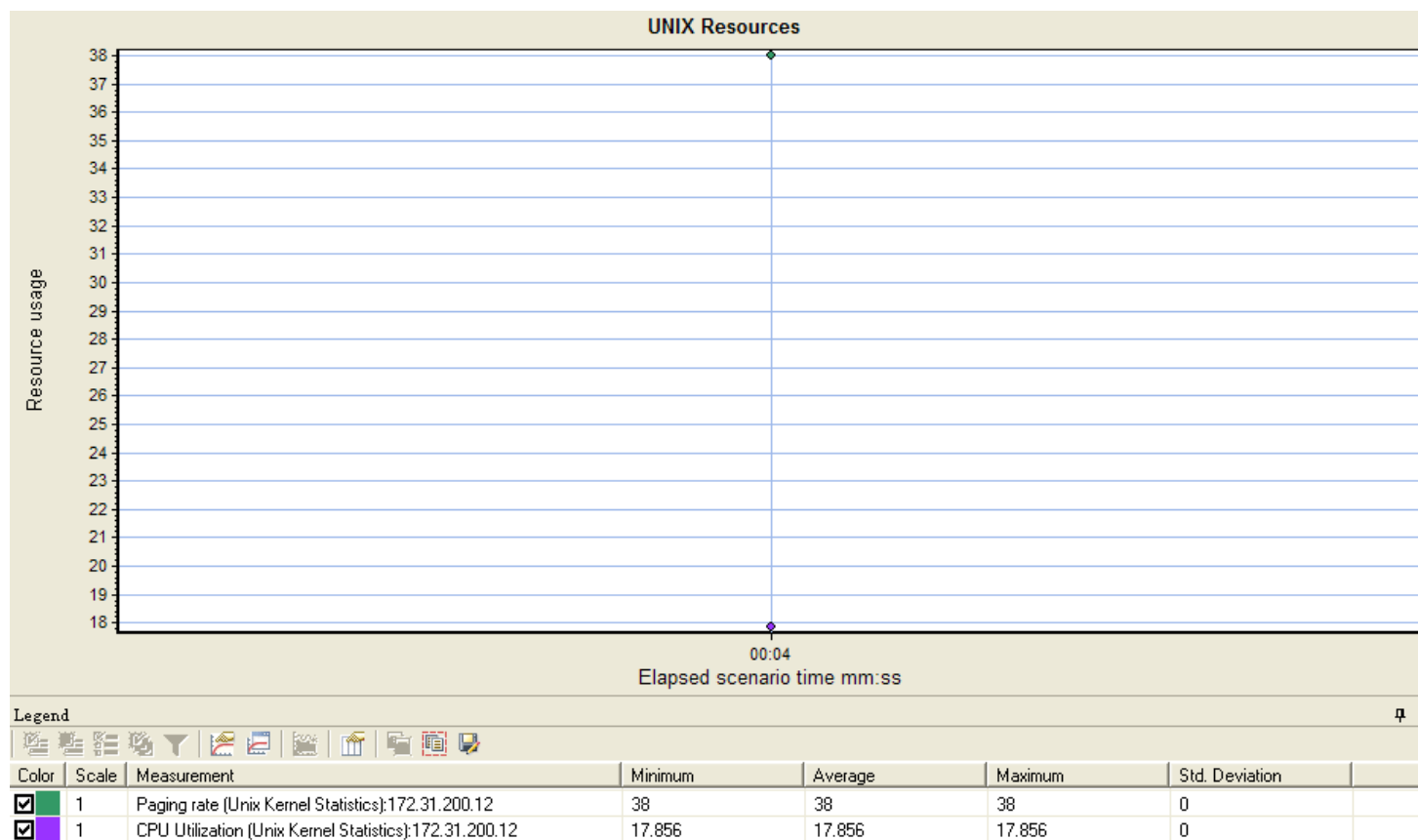
## (5)RPS(Request Per Second)





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## (6)Unix 系统资源





(7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
180	1.217	5.233	6.94	39,985,615	0	558.083	1198.8	0	15.083	61	0	558.083	1198.8	17.856	38

5.3.3.1 并发 200 虚拟用户

(1)整体概述



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### Statistics Summary

<b>Maximum Running Vusers:</b>	200	
<b>Total Throughput (bytes):</b>	44,233,499	
<b>Average Throughput (bytes/second):</b>	2,601,971	
<b>Total Hits:</b>	7,668	
<b>Average Hits per Second:</b>	451.059	<a href="#">View HTTP Responses Summary</a>
<b>Total Errors:</b>	47	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test Errors	0	9.4	0	0
	00:00:00:00	00:00:05:05	00:00:10:10	00:00:15:15

### Transaction Summary

**Transactions:** Total Passed: 592 Total Failed: 47 Total Stopped: 0 [Average Response Time](#)

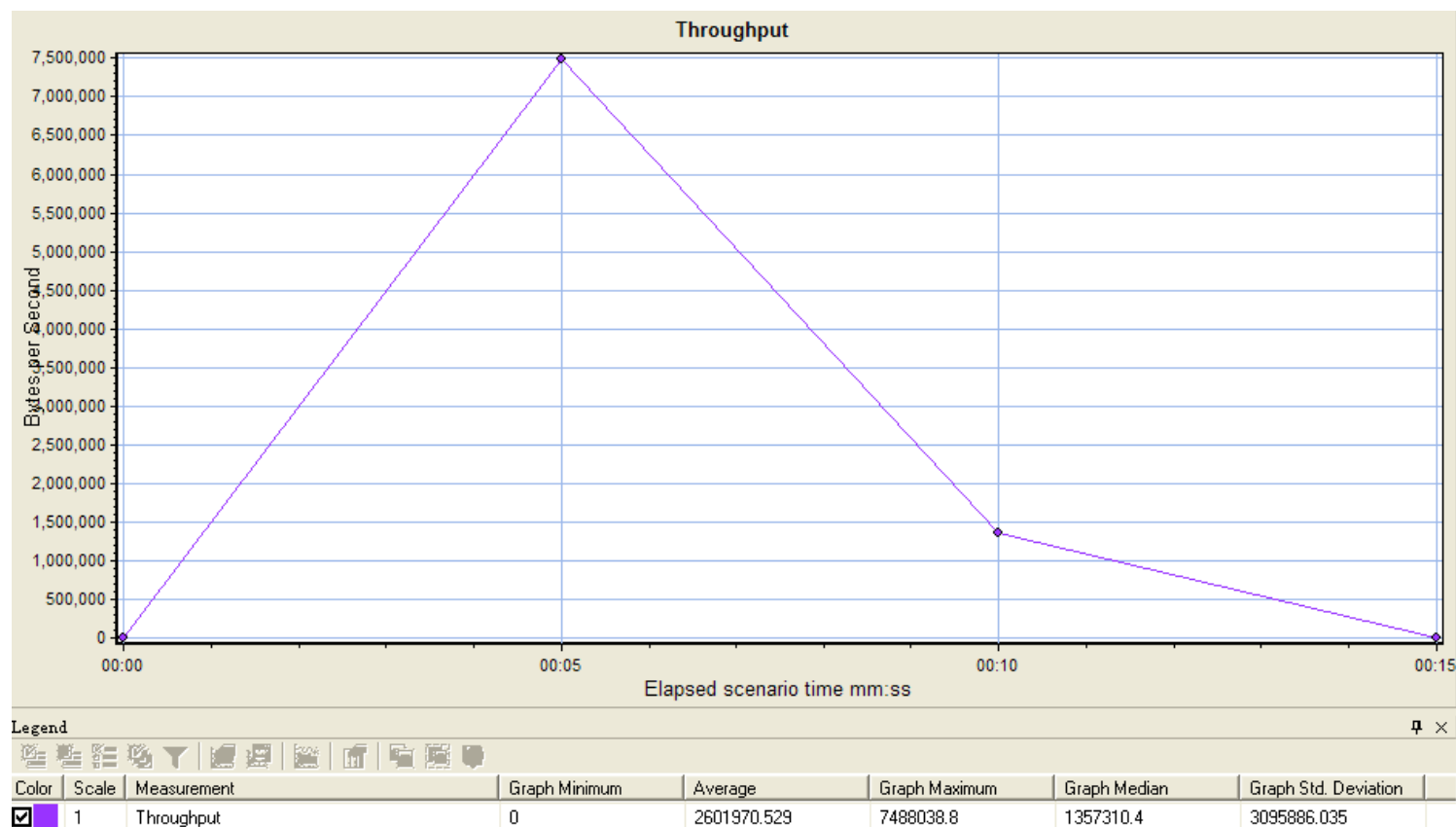
Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.32	3.858	10.769	1.482	4.941	192	47	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	200	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	200	0	0





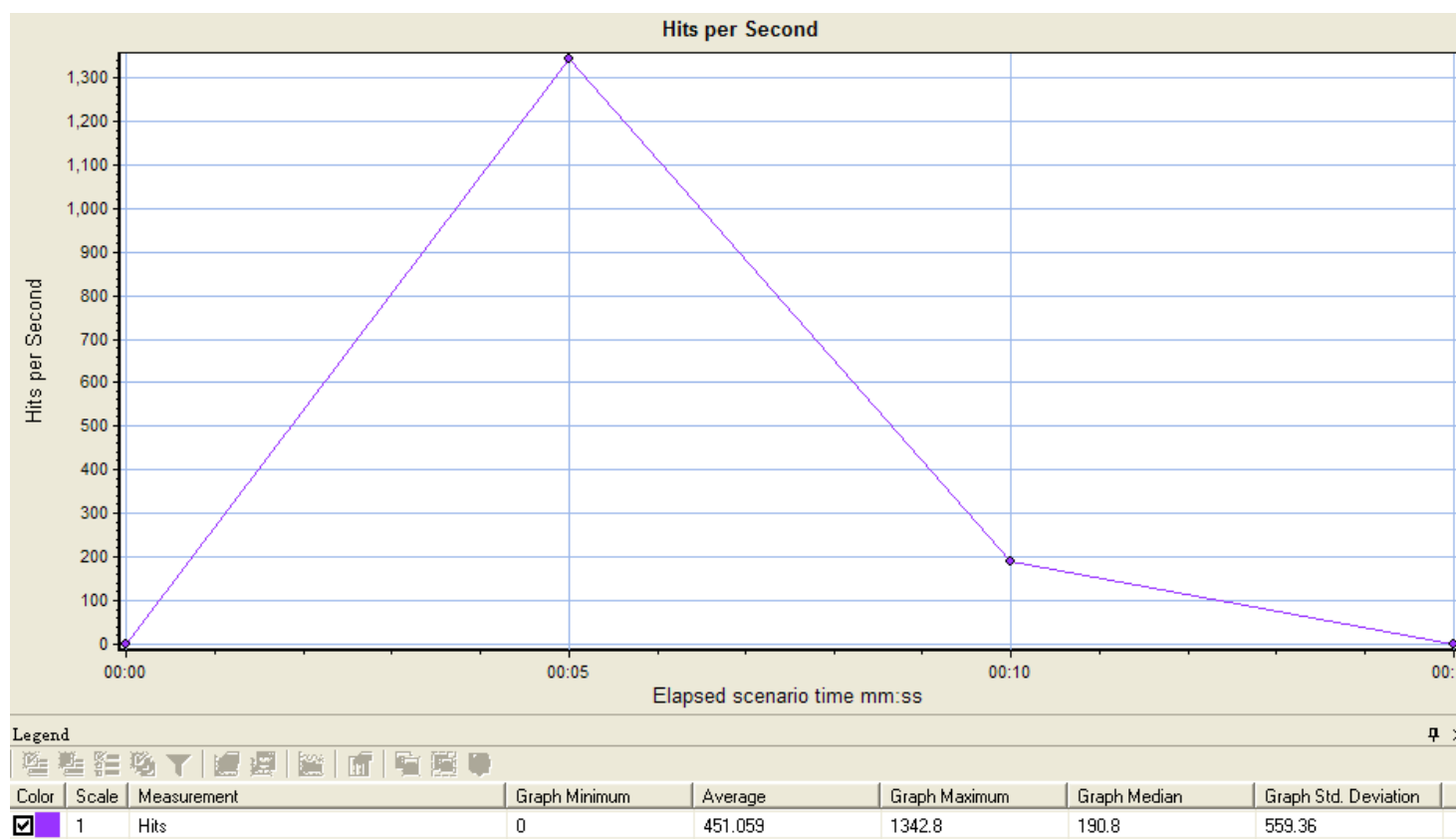
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## (2)吞吐量



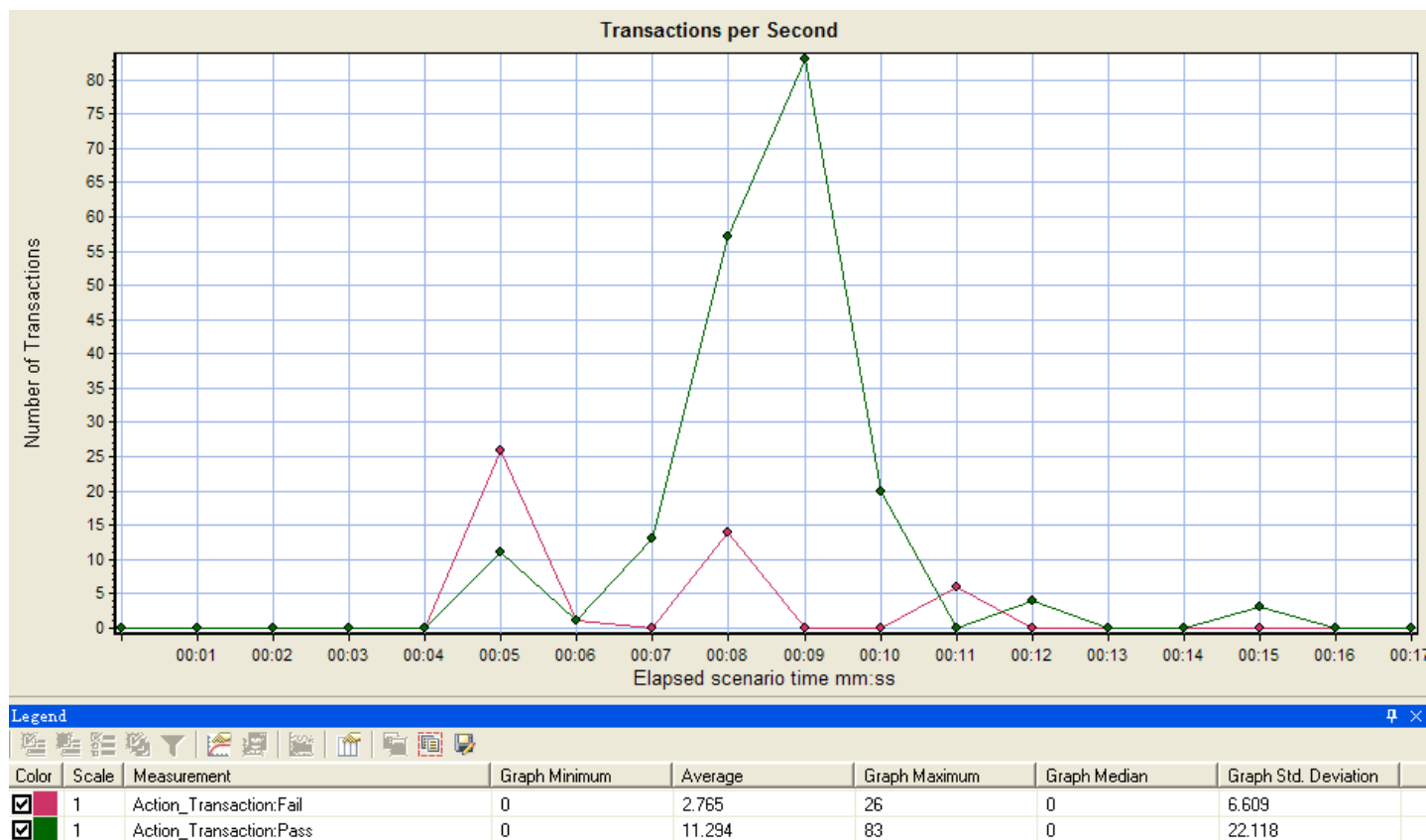


### (3) 点击率



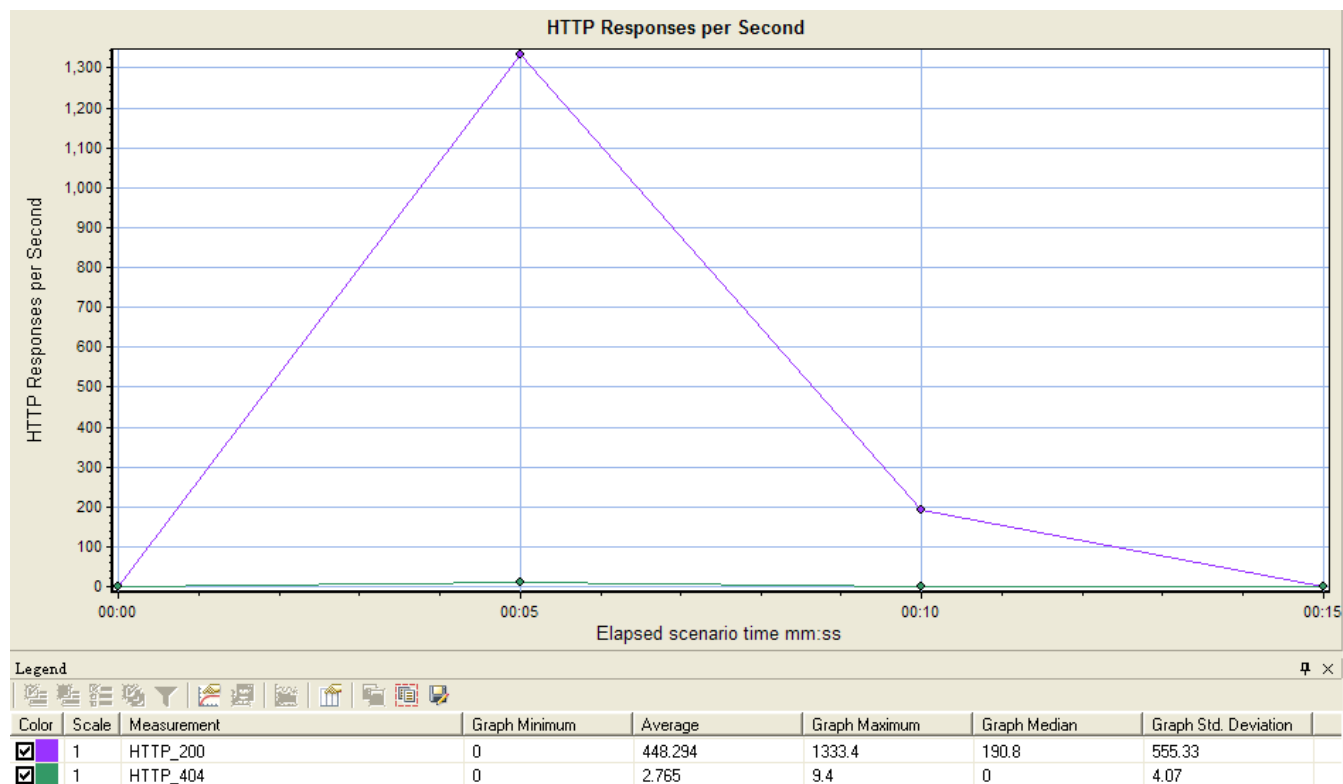


#### (4) TPS



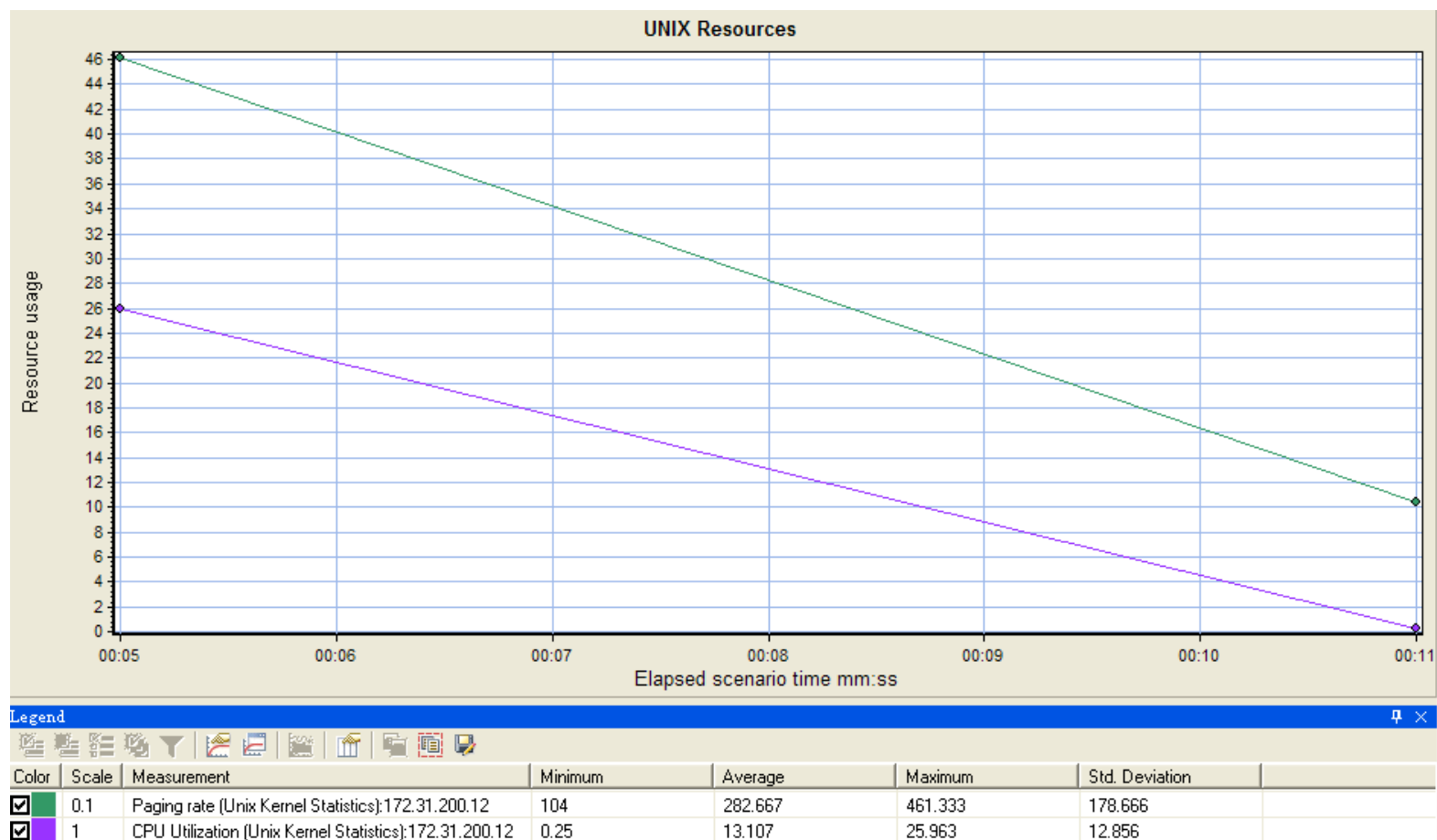


## (5)RPS(Request Per Second)





## (6)Unix 系统资源





## (7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
180	1.217	5.233	6.94	39,985,615	0	558.083	1198.8	0	15.083	61	0	558.083	1198.8	17.856	38
200	0.32	4.941	10.769	44,233,499	0	451.059	1342.8	0	11.294	83	0	448.294	1333.4	0.25, 13.107, 25.963	104, 282.667, 461.333

## 小结

在运行 200 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：  
2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resour



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ce temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request : "GET / HTTP/1.1", upstream: "fastcgi://unix:/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 25.963%, Paging Rate 最高为  $461.333 * 0.1 = 46.1$ , 吞吐量最大为: 44,233,499Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 影片库页该单台所能承受的并发最好情况为 180.



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### 5.3.4 频道列表

#### 5.3.4.1 并发 160 虚拟用户

##### (1)整体概述





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## Statistics Summary

<a href="#">Maximum Running Vusers:</a>	160	
<a href="#">Total Throughput (bytes):</a>	18,756,864	
<a href="#">Average Throughput (bytes/second):</a>	1,875,686	
<a href="#">Total Hits:</a>	6,336	
<a href="#">Average Hits per Second:</a>	633.6	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges		
Application Under Test	0	0	0
Errors	00:00:00	00:00:05	00:00:10

## Transaction Summary

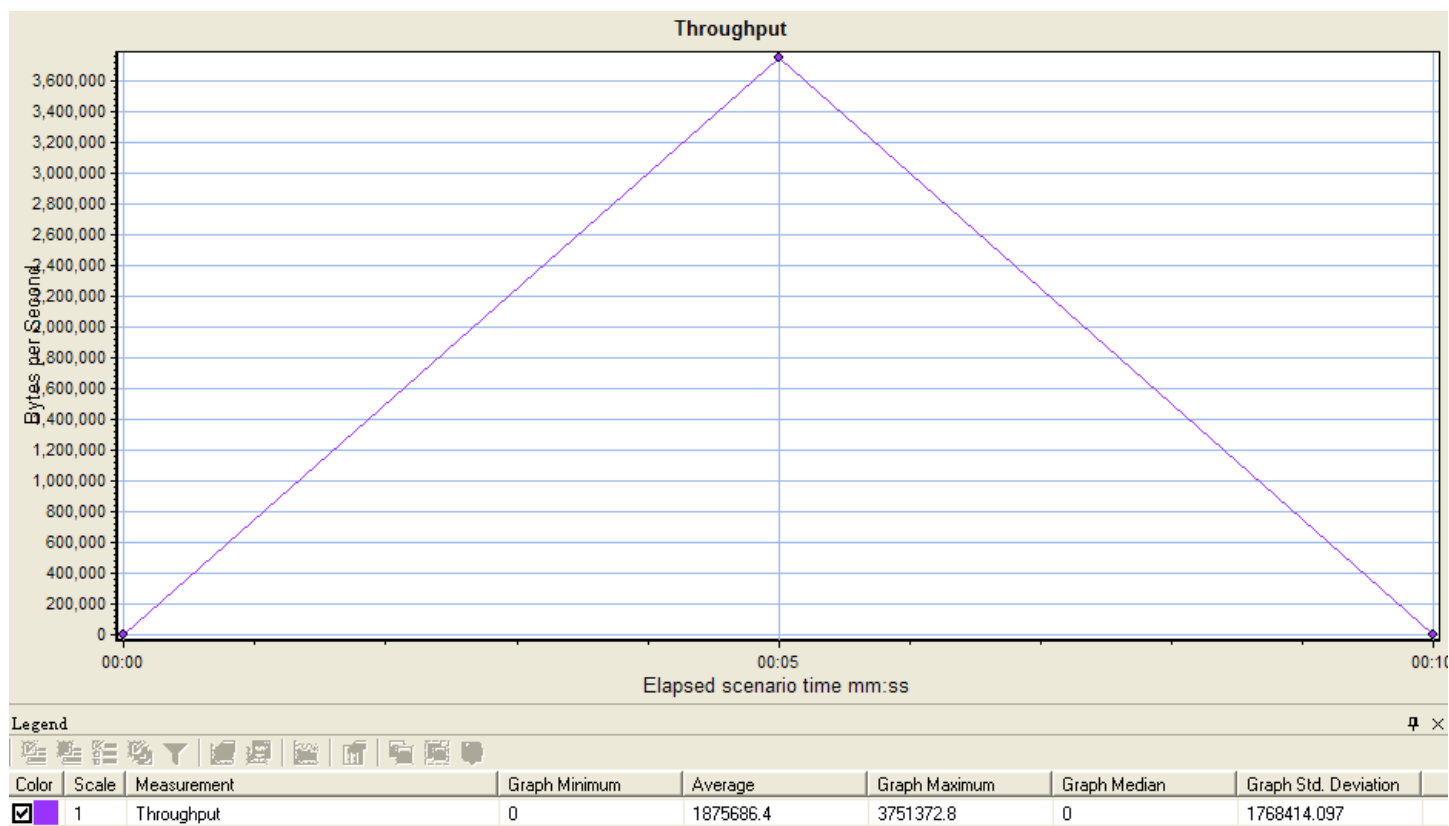
[Transactions:](#) Total Passed: 608 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.222	1.483	4.024	0.966	3.055	288	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	160	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	160	0	0



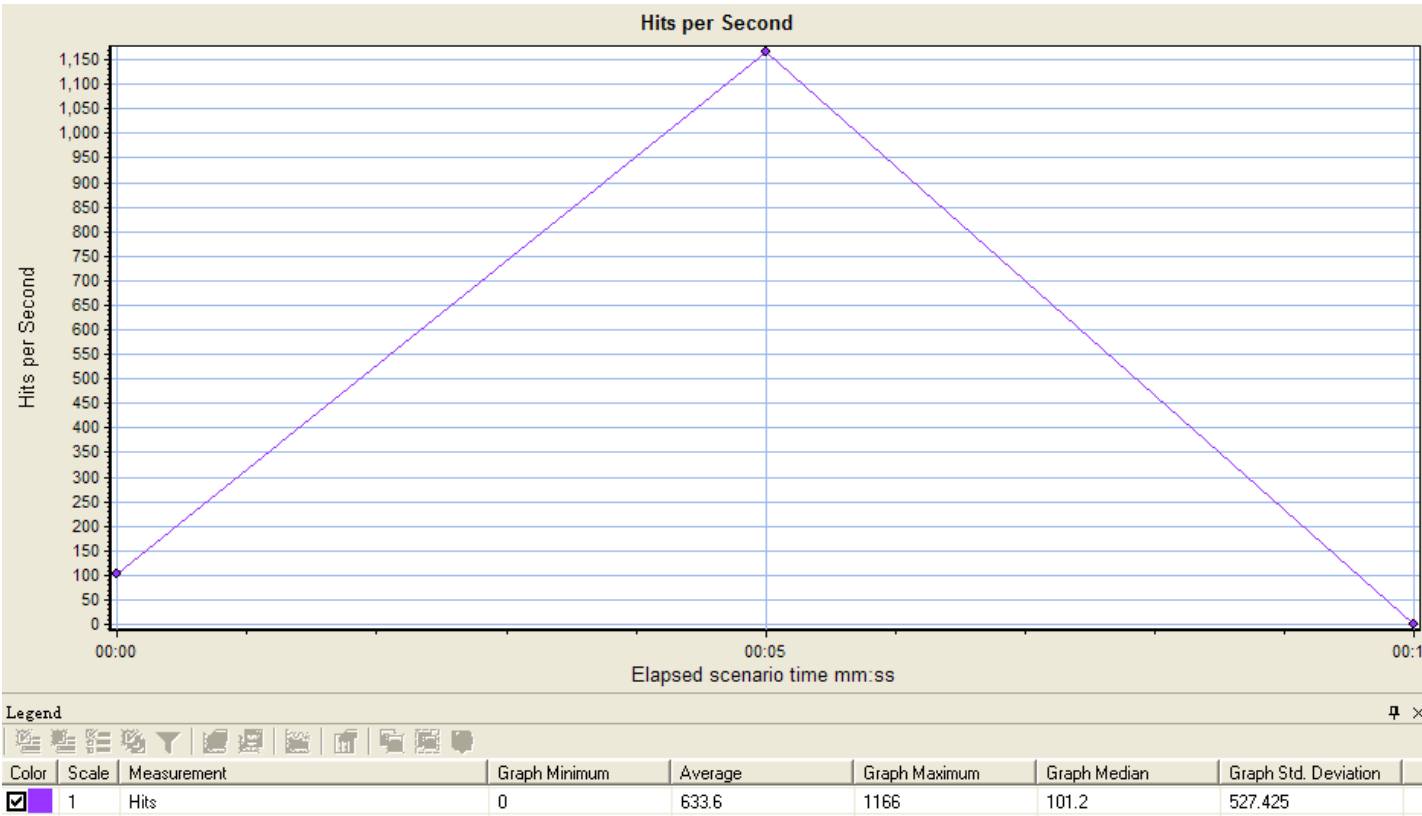
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## (2)吞吐量



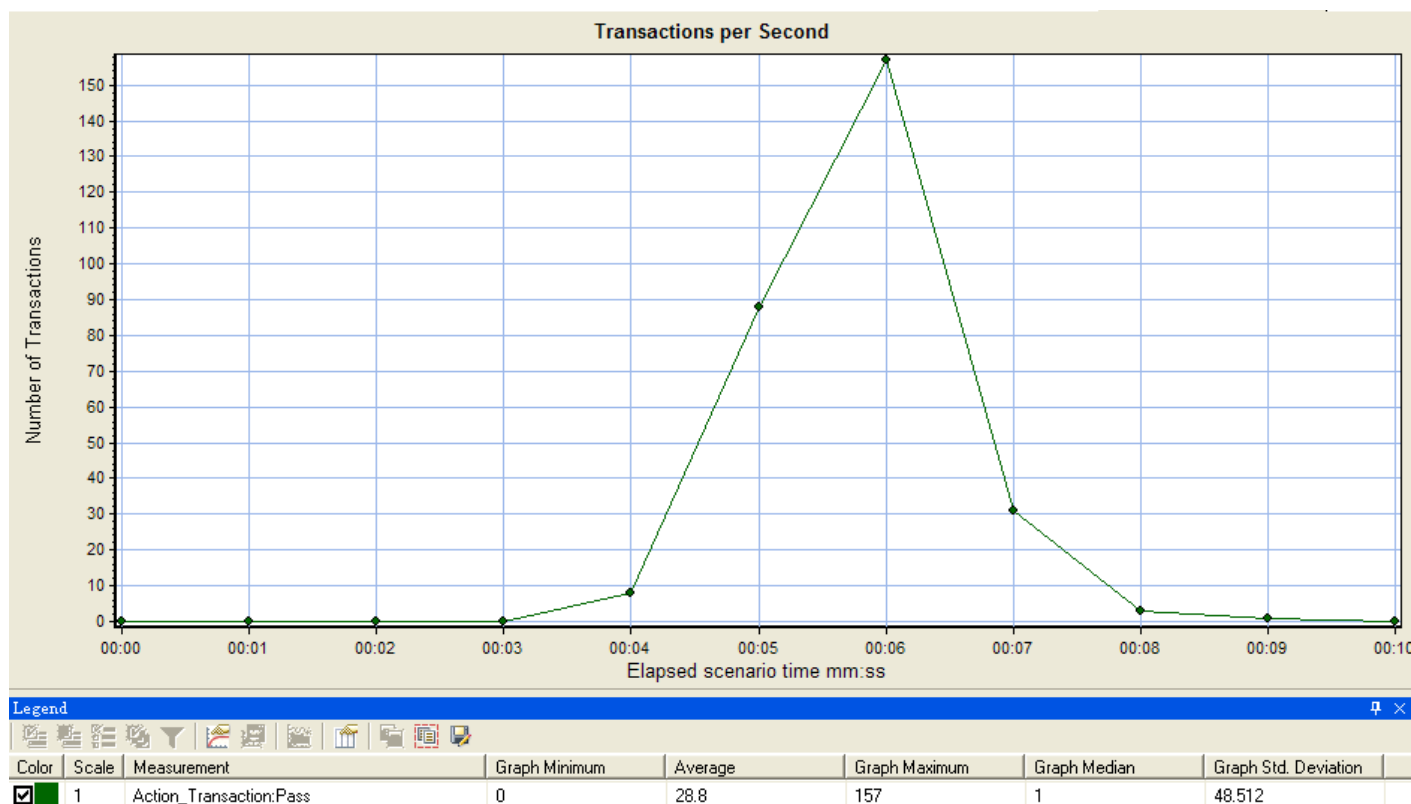


(3) 点击率



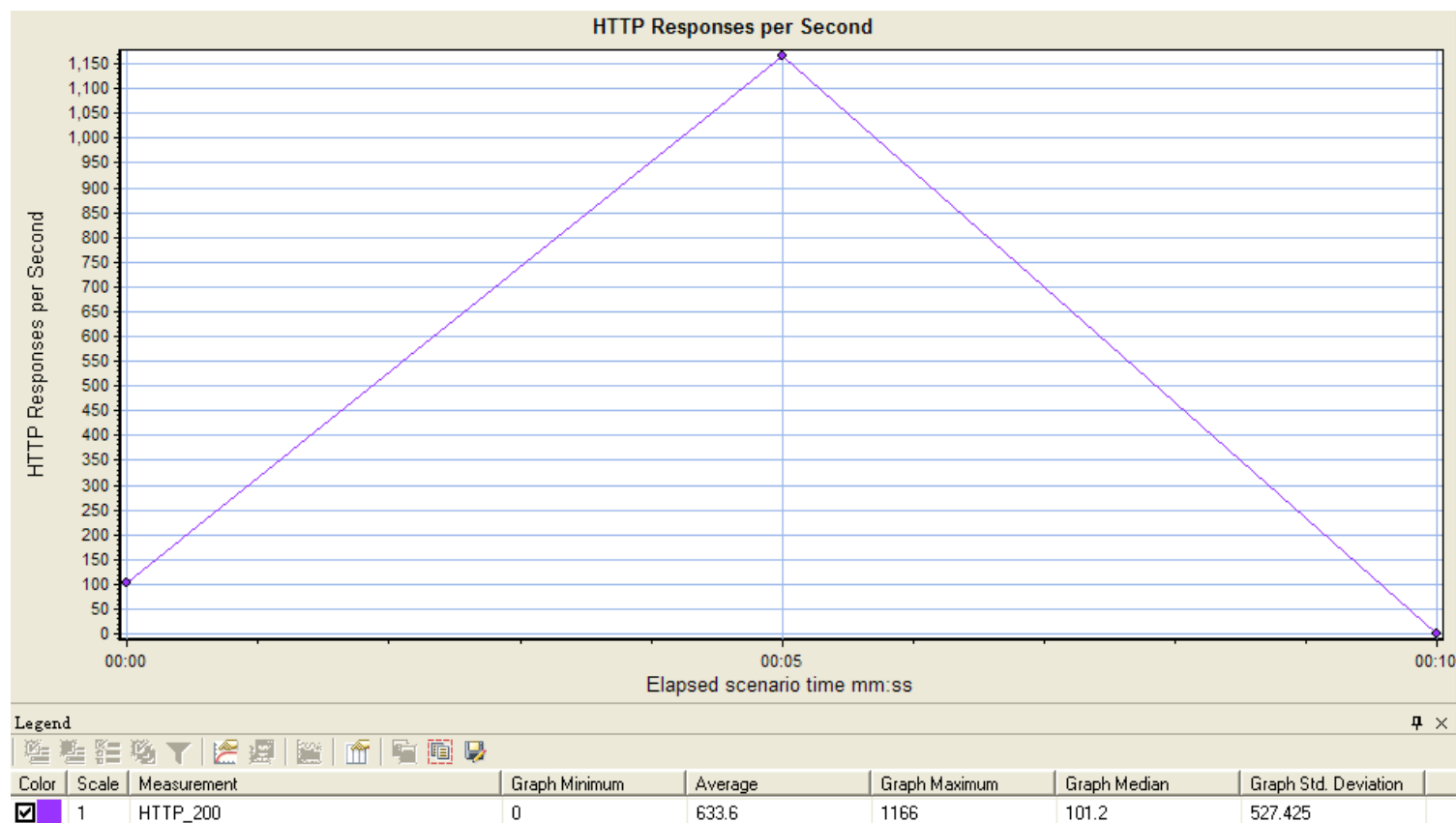


#### (4) TPS





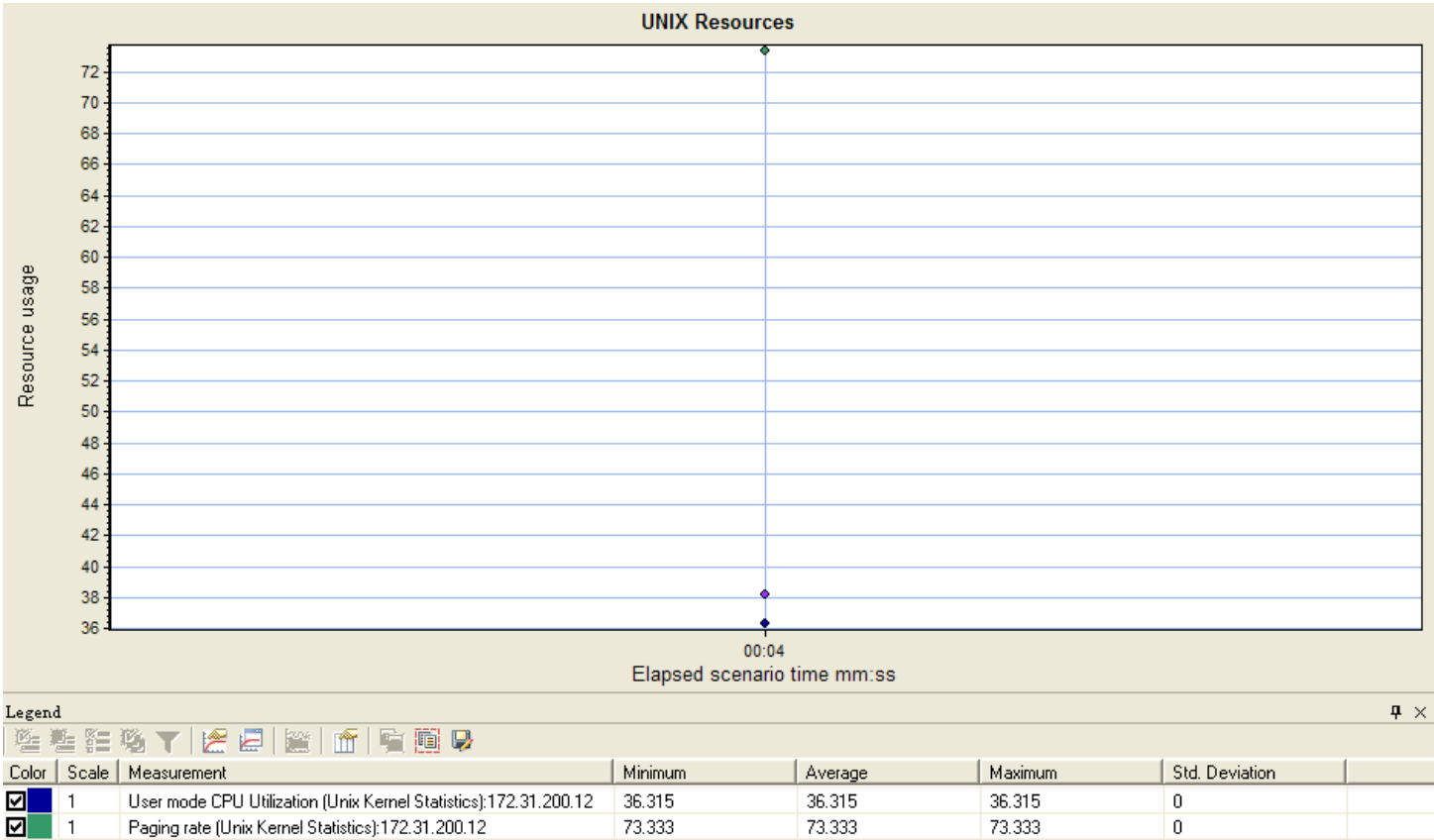
## (5)RPS(Request Per Second)





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(6)Unix 系统资源





(6)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (min->aver->max)
160	0.222	3.055	4.024	18,756,864	0	633.6	1166	0	28.8	157	0	633.6	1166	38.225	73.333

5.3.4.1 并发 180 虚拟用户

(1)整体概述



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## Statistics Summary

<a href="#">Maximum Running Vusers:</a>	180	
<a href="#">Total Throughput (bytes):</a>	22,879,556	
<a href="#">Average Throughput (bytes/second):</a>	2,287,956	
<a href="#">Total Hits:</a>	7,799	
<a href="#">Average Hits per Second:</a>	779.9	<a href="#">View HTTP Responses Summary</a>
<a href="#">Total Errors:</a>	31	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges		
Application Under Test	6.2	0	0
Errors	00:00:00	00:00:05	00:00:10

## Transaction Summary

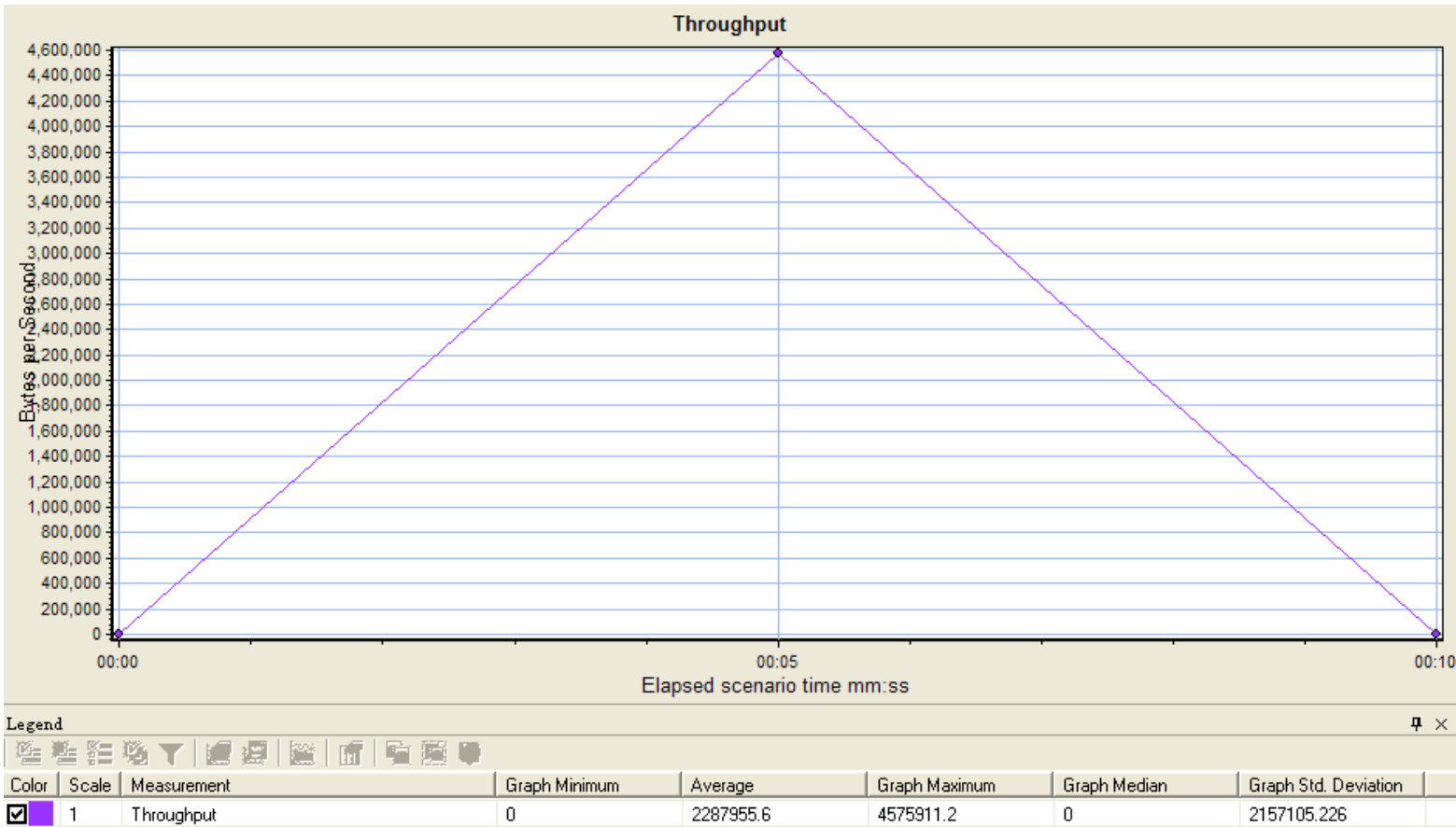
[Transactions:](#) Total Passed: 699 Total Failed: 31 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.218	1.41	5.476	0.975	2.804	339	31	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	180	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	180	0	0





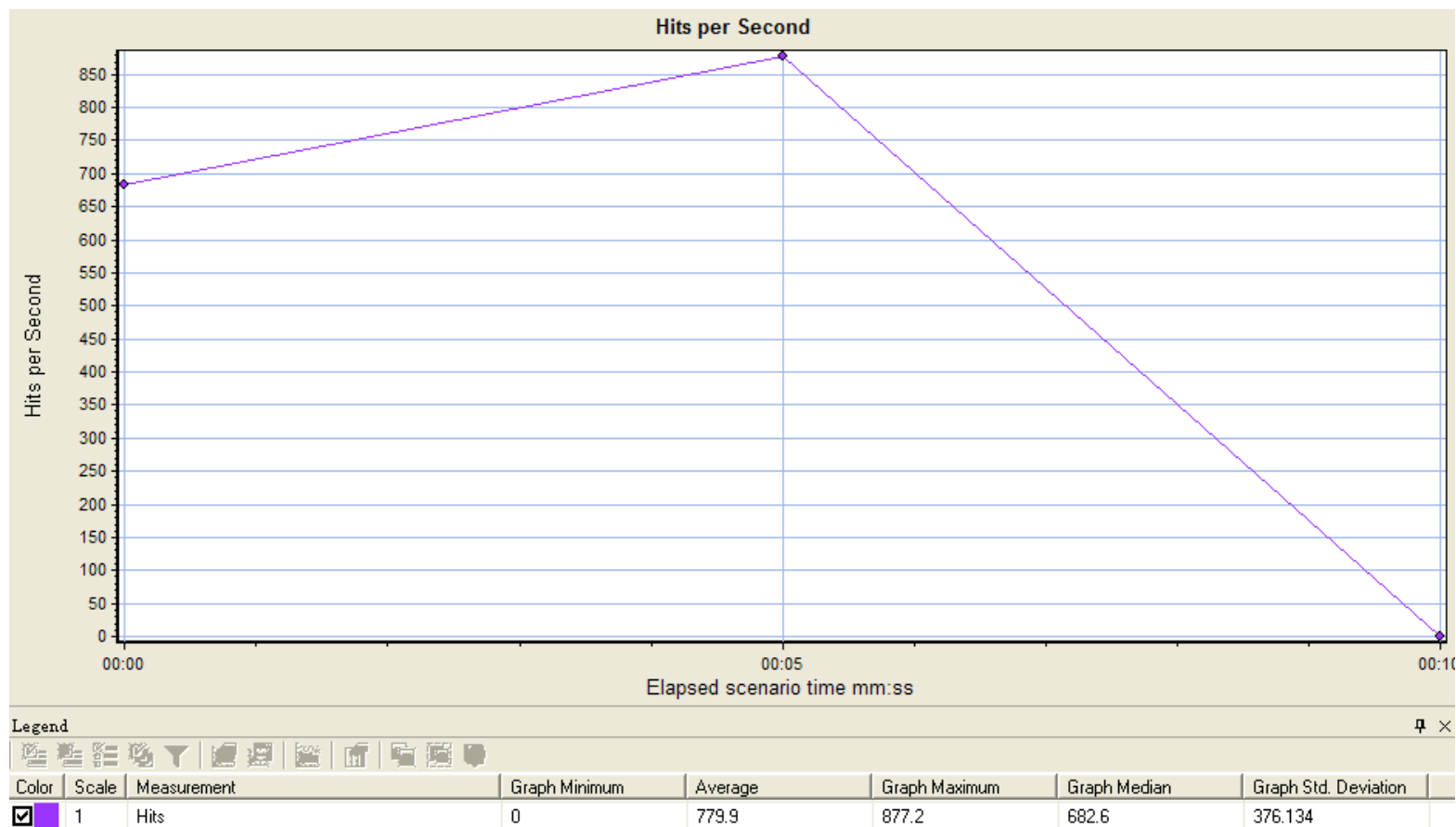
## (2)吞吐量





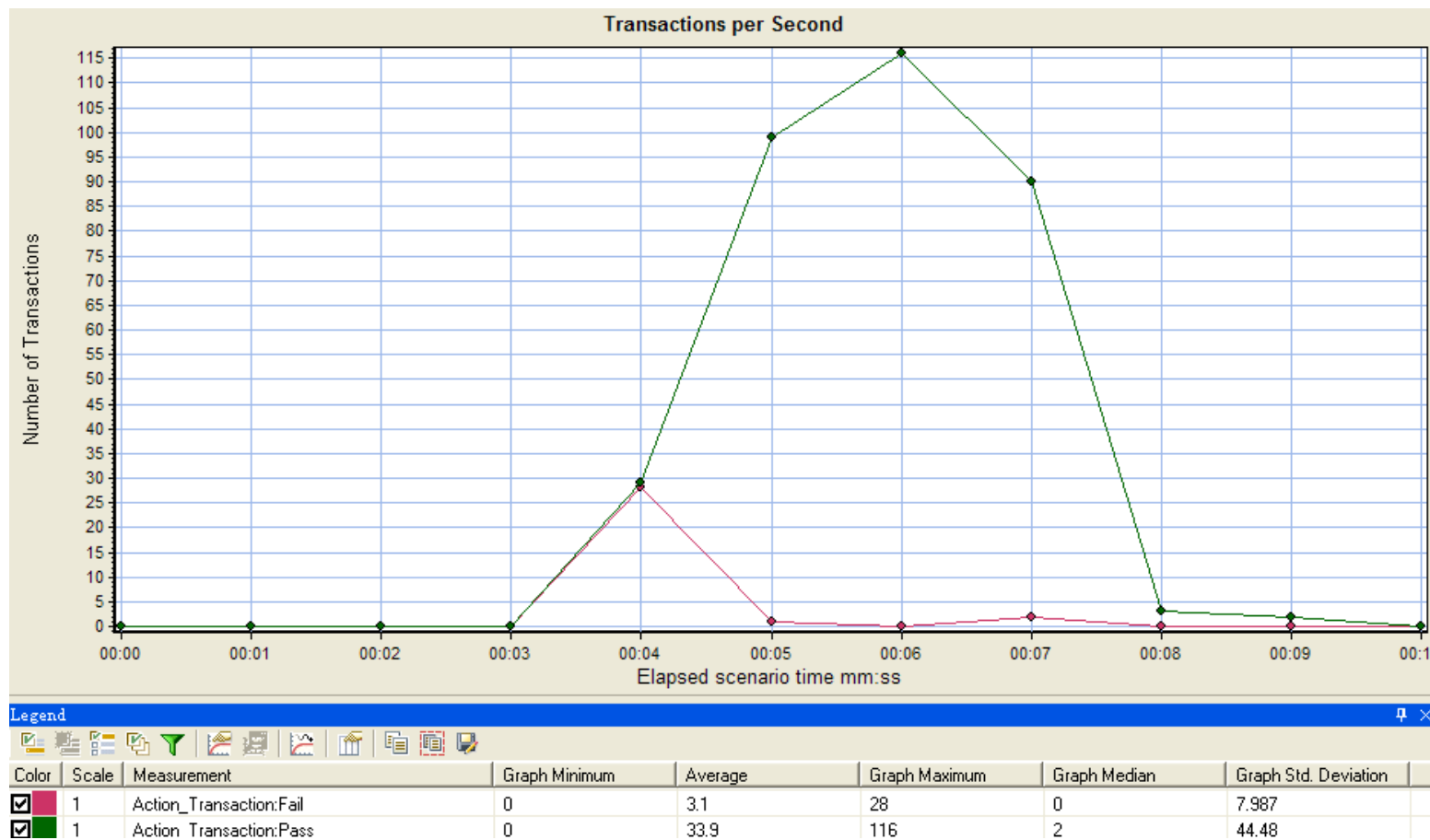
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### (3) 点击率



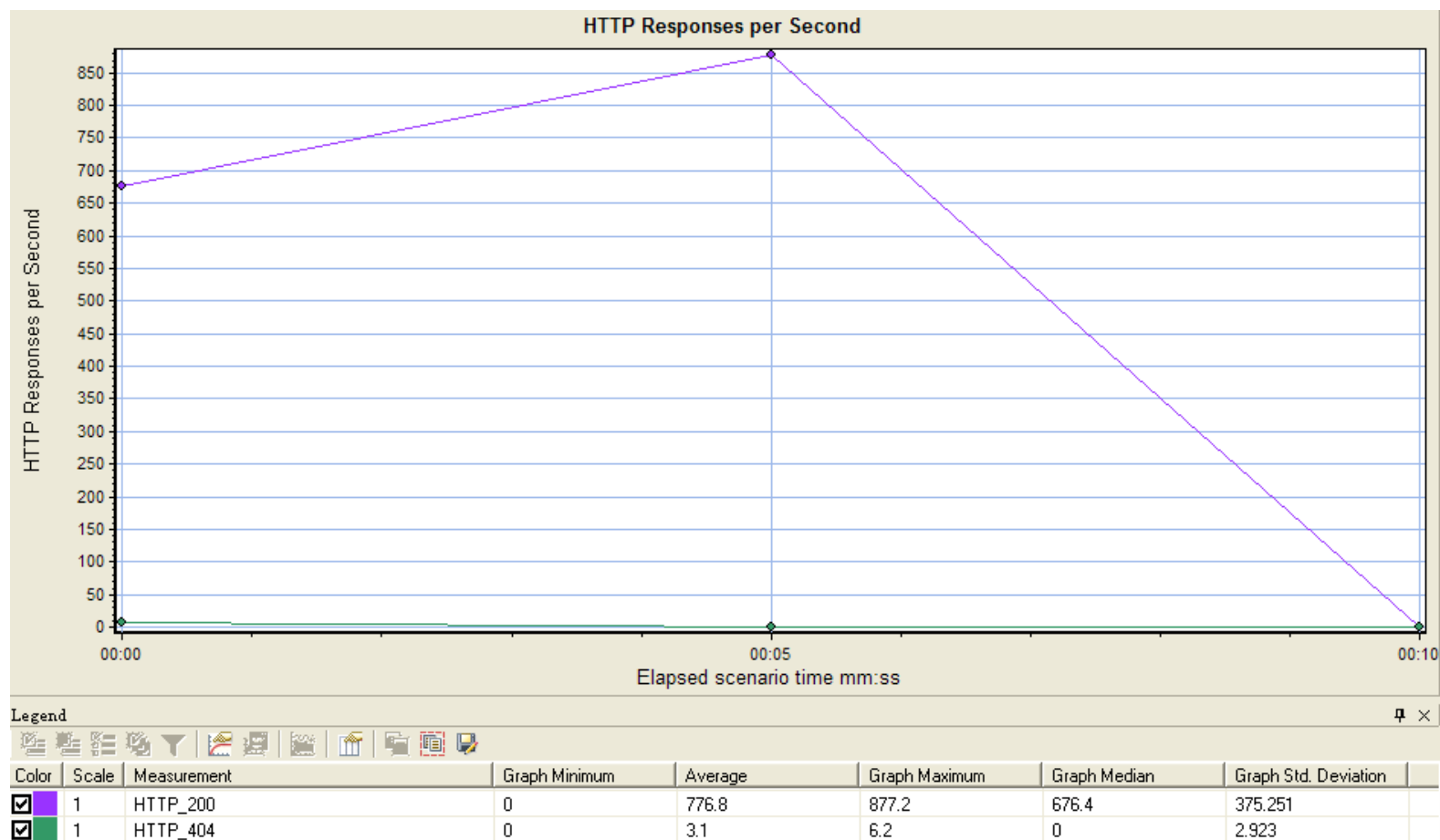


#### (4) TPS



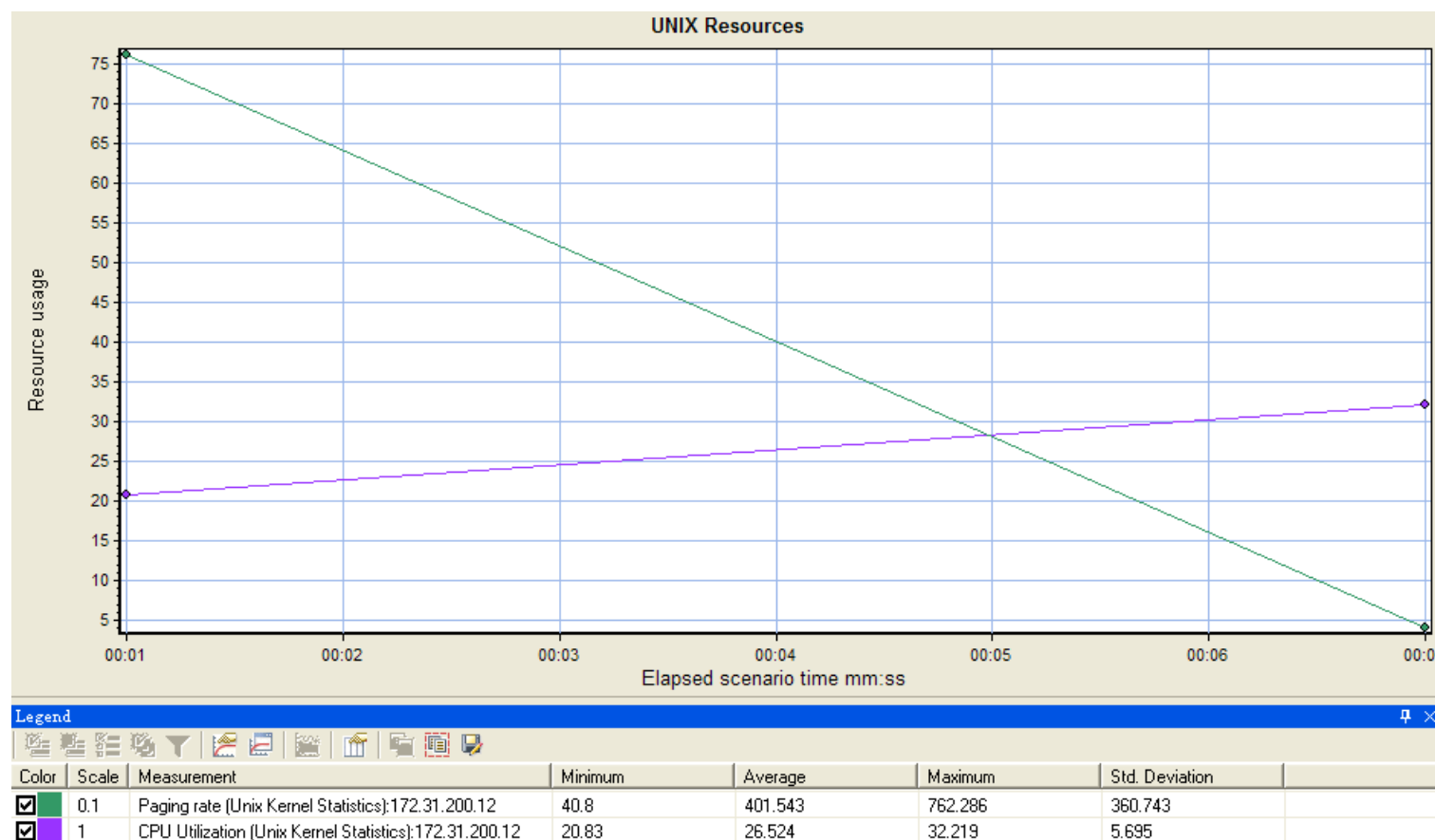


## (5)RPS(Request Per Second)





## (6)Unix 系统资源





## (7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
160	0.222	3.055	4.024	18,756,864	0	633.6	1166	0	28.8	157	0	633.6	1166	38.225	73.333
180	0.218	2.804	5.476	22,879,556	0	779.9	877.2	0	33.9	116	0	776.8	877.2	20.83, 26.524, 32.219	40.8, 401.543, 762.286

## 小结

在运行 180 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：



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2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resource temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 32.219%, Paging Rate 最高为  $762.286 * 0.1 = 76.3$ , 吞吐量最大为: 22,879,556Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 频道列表页该单台所能承受的并发最好情况为 160.



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### 5.3.5 搜索

#### 5.3.5.1 并发 320 虚拟用户

##### (1)整体概述





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## Statistics Summary

<b>Maximum Running Vusers:</b>	320	
<b>Total Throughput (bytes):</b>	57,927,582	
<b>Average Throughput (bytes/second):</b>	2,758,456	
<b>Total Hits:</b>	8,592	
<b>Average Hits per Second:</b>	409.143	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges				
Application Under Test Errors	0	0	0	0	0
	00:00:00	00:00:05	00:00:10	00:00:15	00:00:20

## Transaction Summary

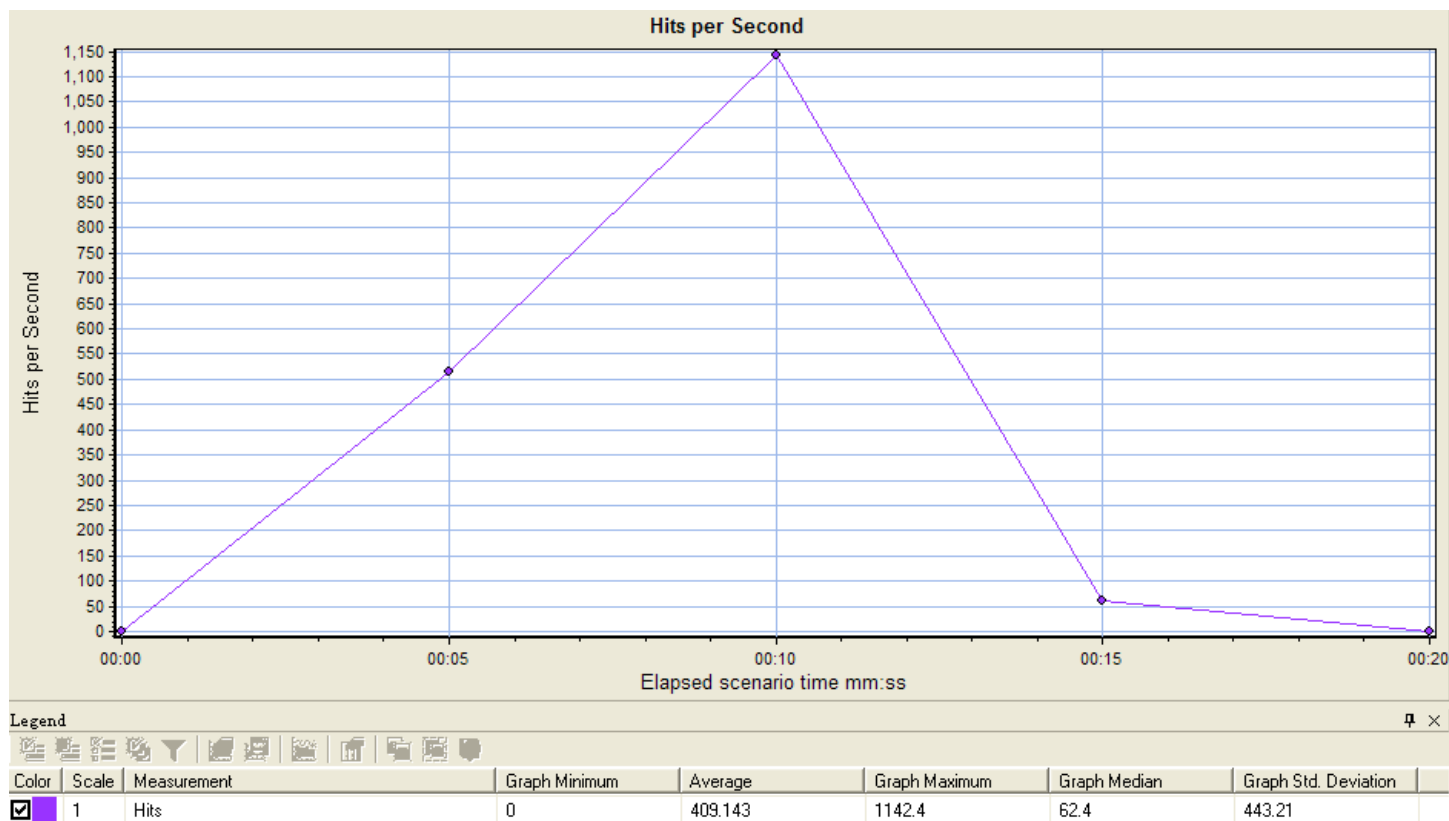
**Transactions:** Total Passed: 998 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.595	4.899	13.159	2.392	7.732	358	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	320	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	320	0	0



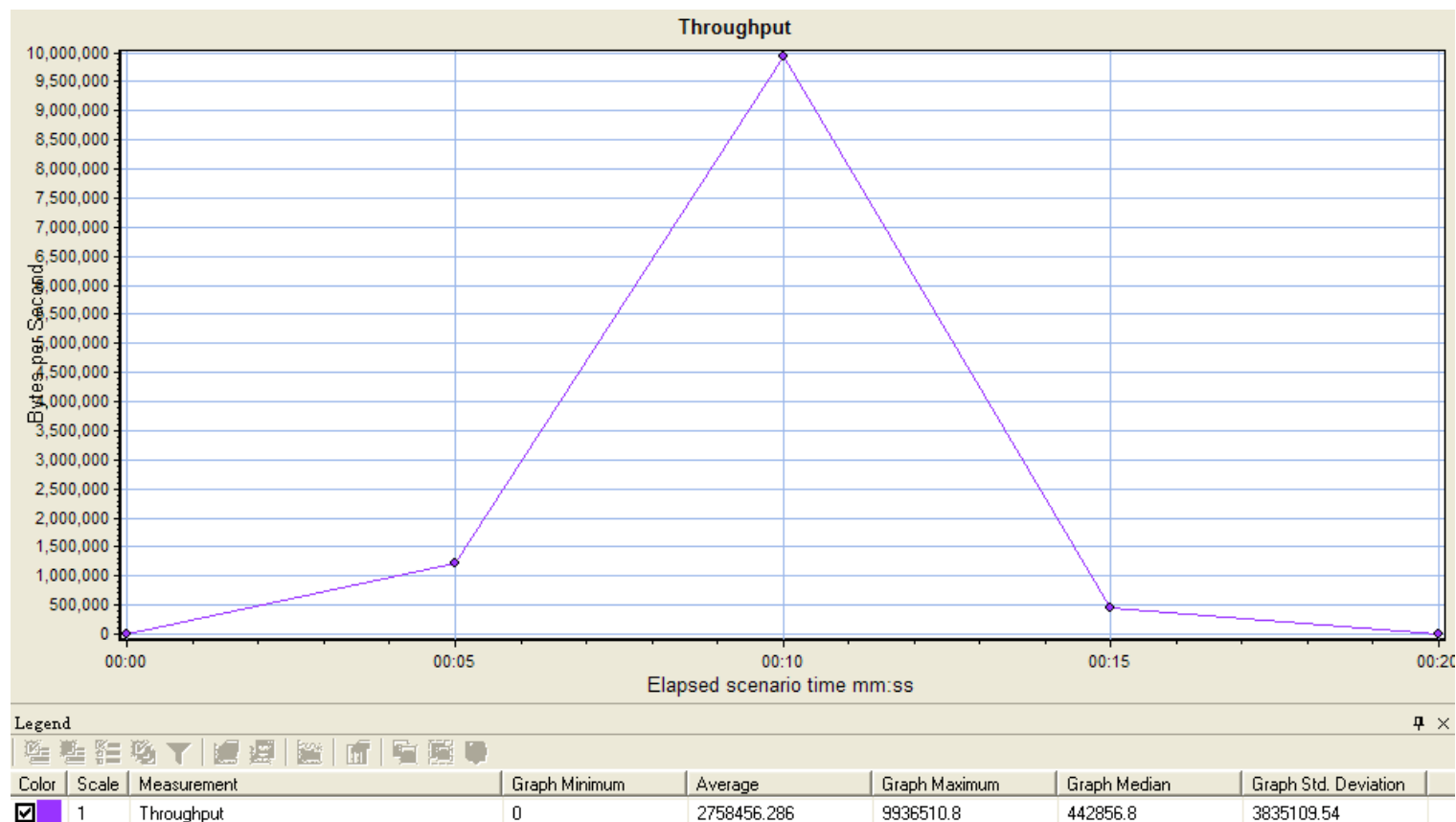
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## (2) 点击率



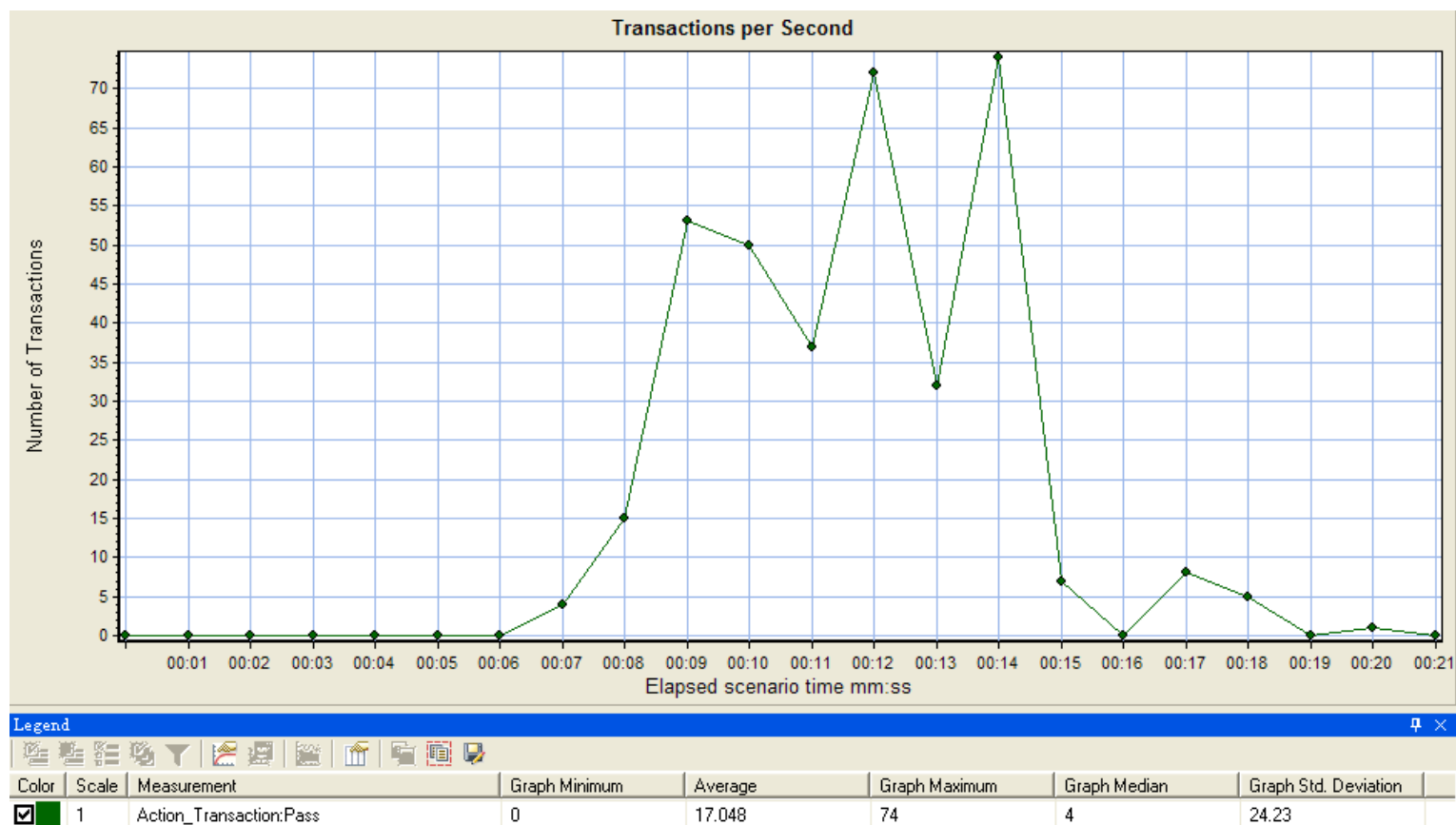


### (3) 吞吐量



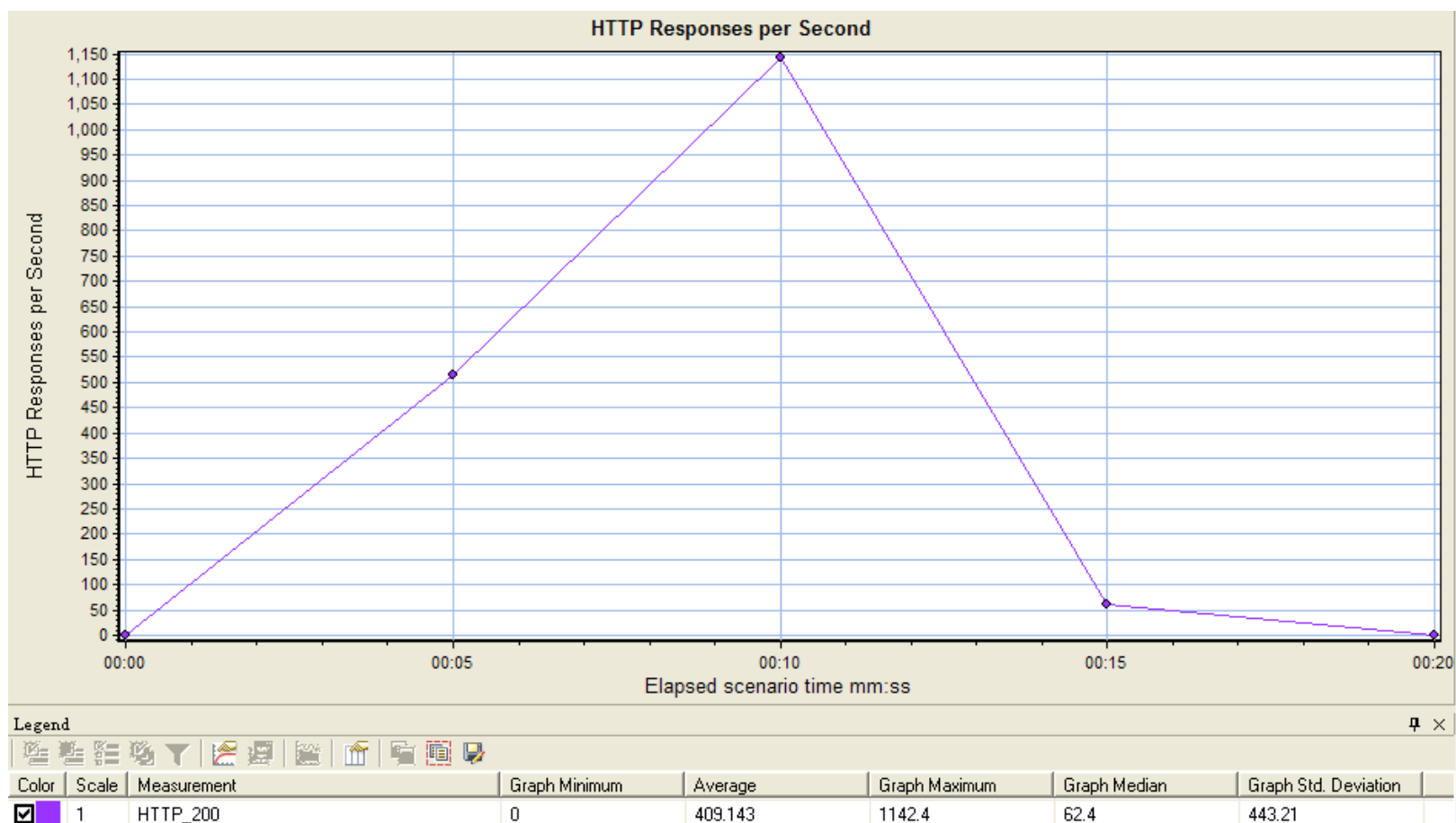


#### (4) TPS



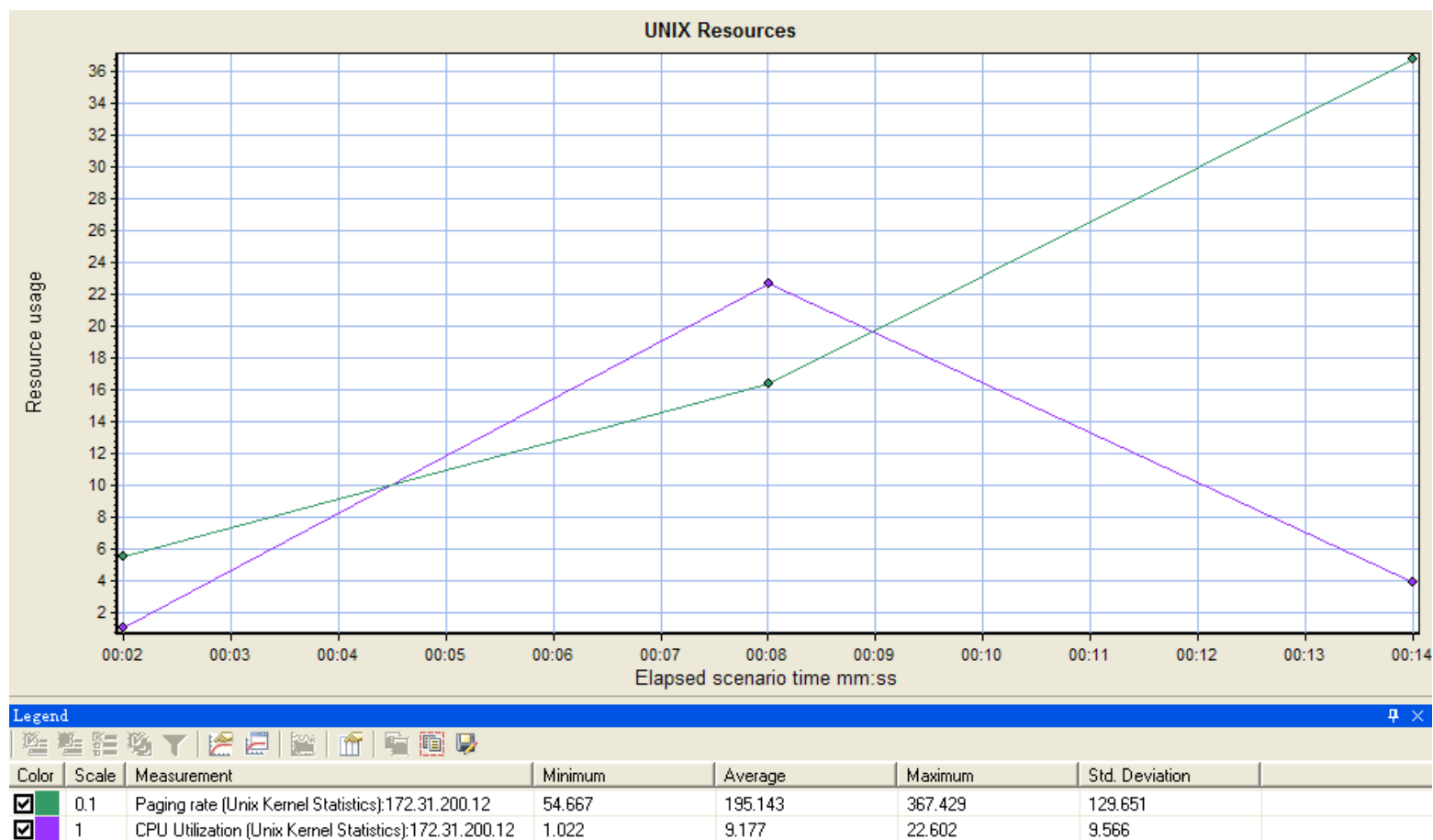


## (5)RPS(Request Per Second)





## (6) UNIX 系统资源





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(7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
320	0.595	7.732	13.159	57,927,582	0	409.143	1142.4	0	17.048	74	0	409.143	1142.4	1.022, 9.177, 22.602	54.667, 195.143, 367.429

5.3.5.2 并发 340 虚拟用户



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## (1) 整体概述

### Statistics Summary

<a href="#">Maximum Running Vusers:</a>	340	
<a href="#">Total Throughput (bytes):</a>	64,573,422	
<a href="#">Average Throughput (bytes/second):</a>	3,228,671	
<a href="#">Total Hits:</a>	9,552	
<a href="#">Average Hits per Second:</a>	477.6	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges				
Application Under Test	0	0	0	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15	00:00:20

### Transaction Summary

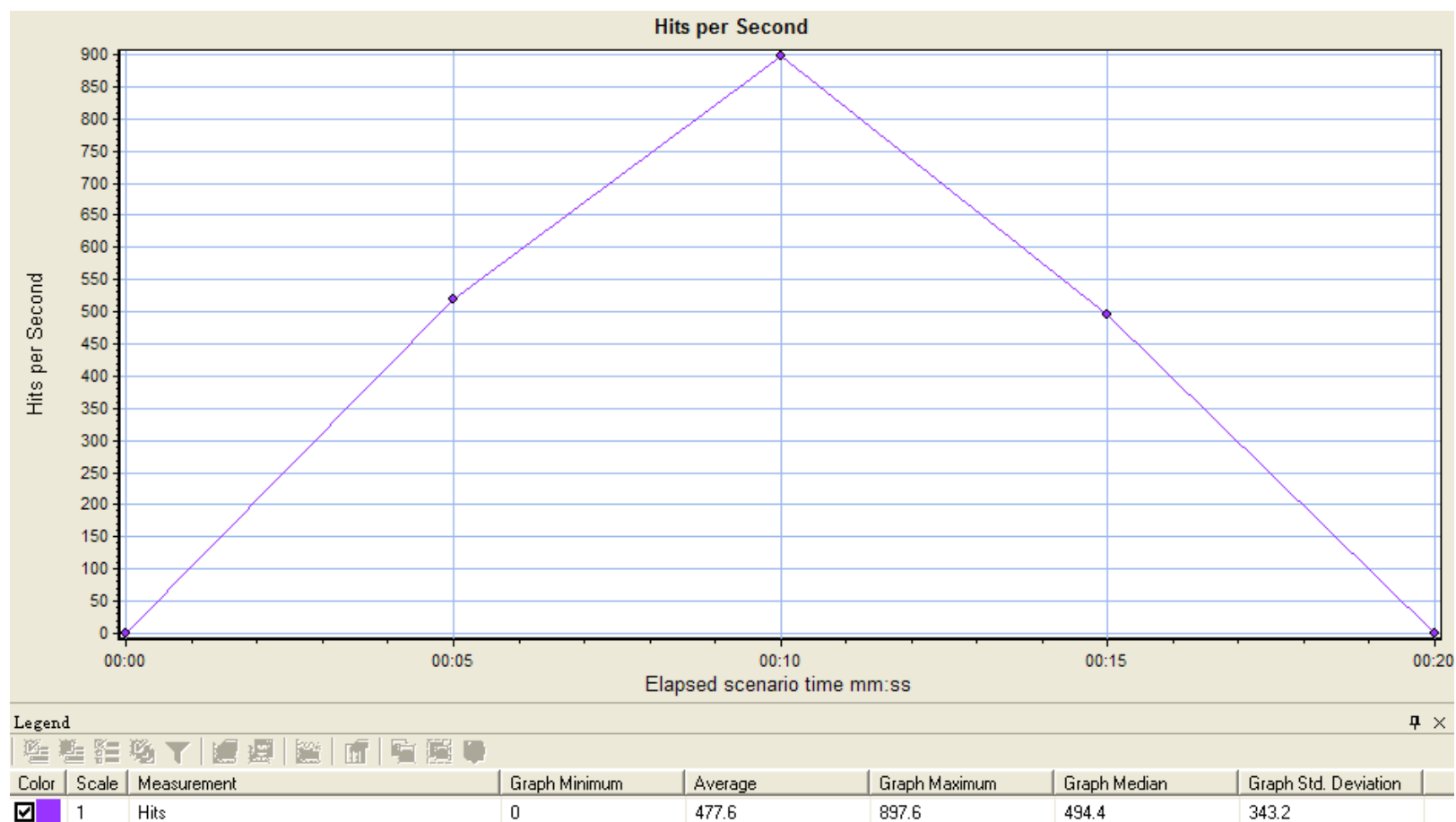
[Transactions:](#) Total Passed: 1,078 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.637	4.822	11.43	2.707	8.403	398	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	340	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.003	0	0.003	340	0	0



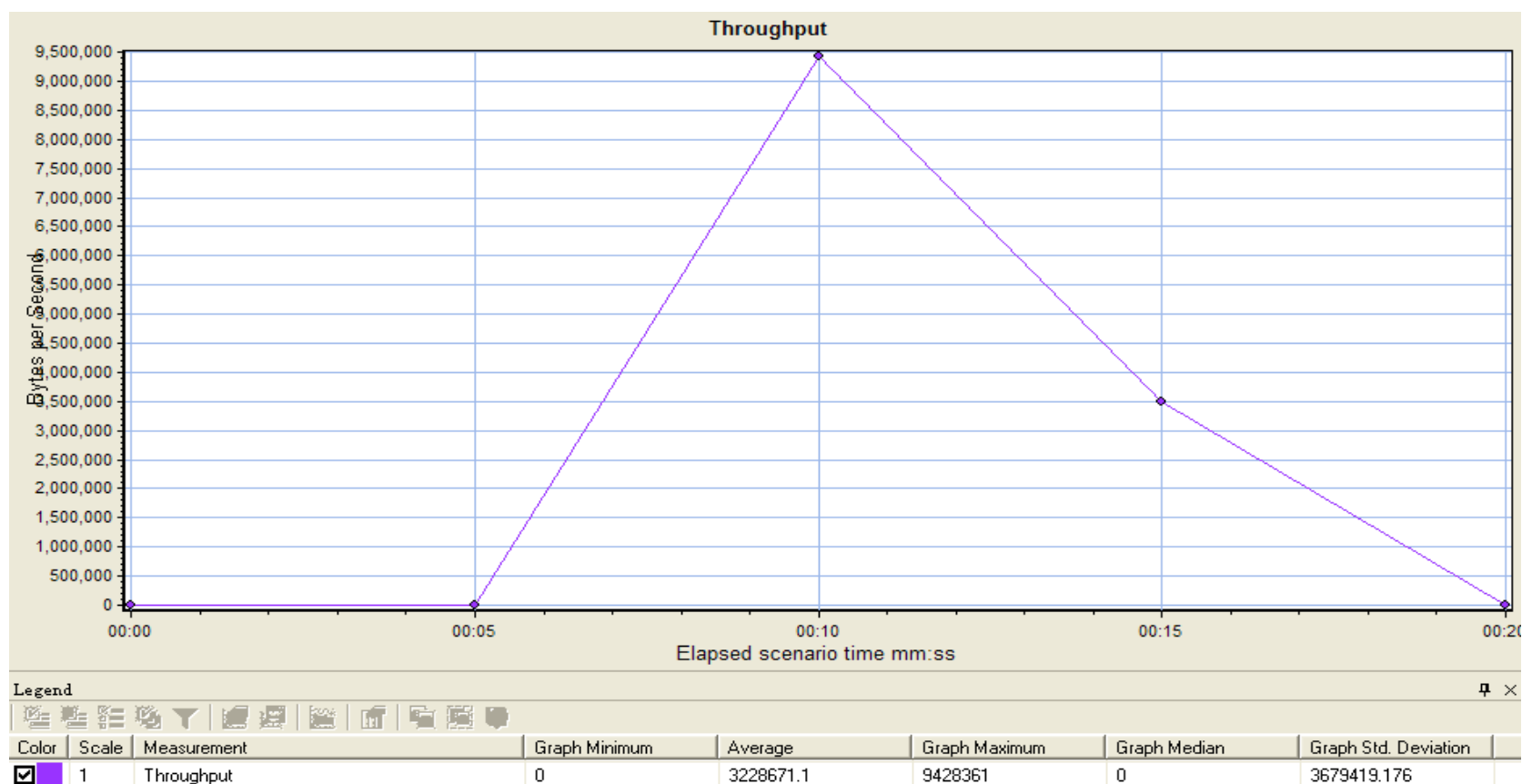


## (2) 点击率



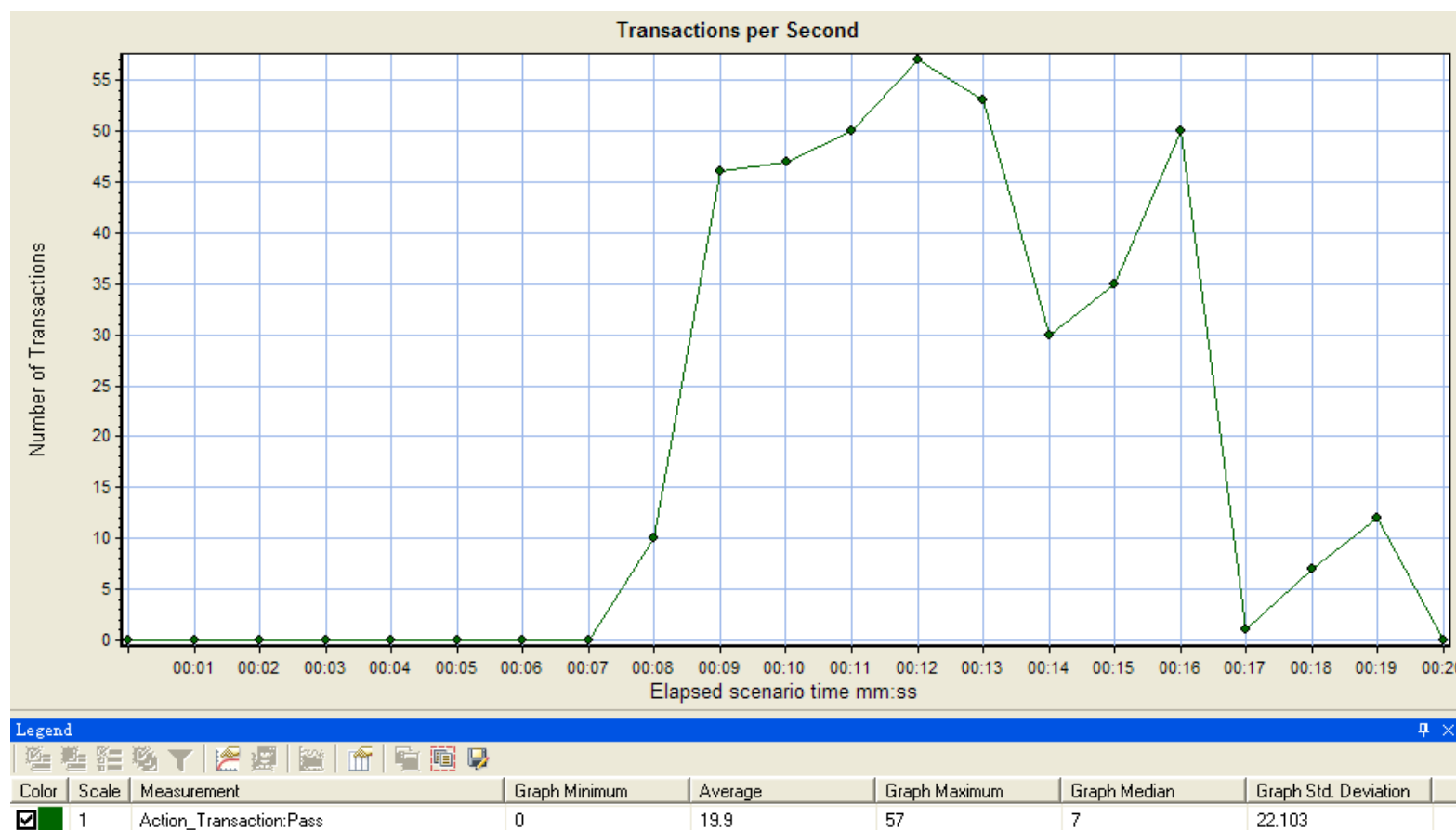


### (3) 吞吐量



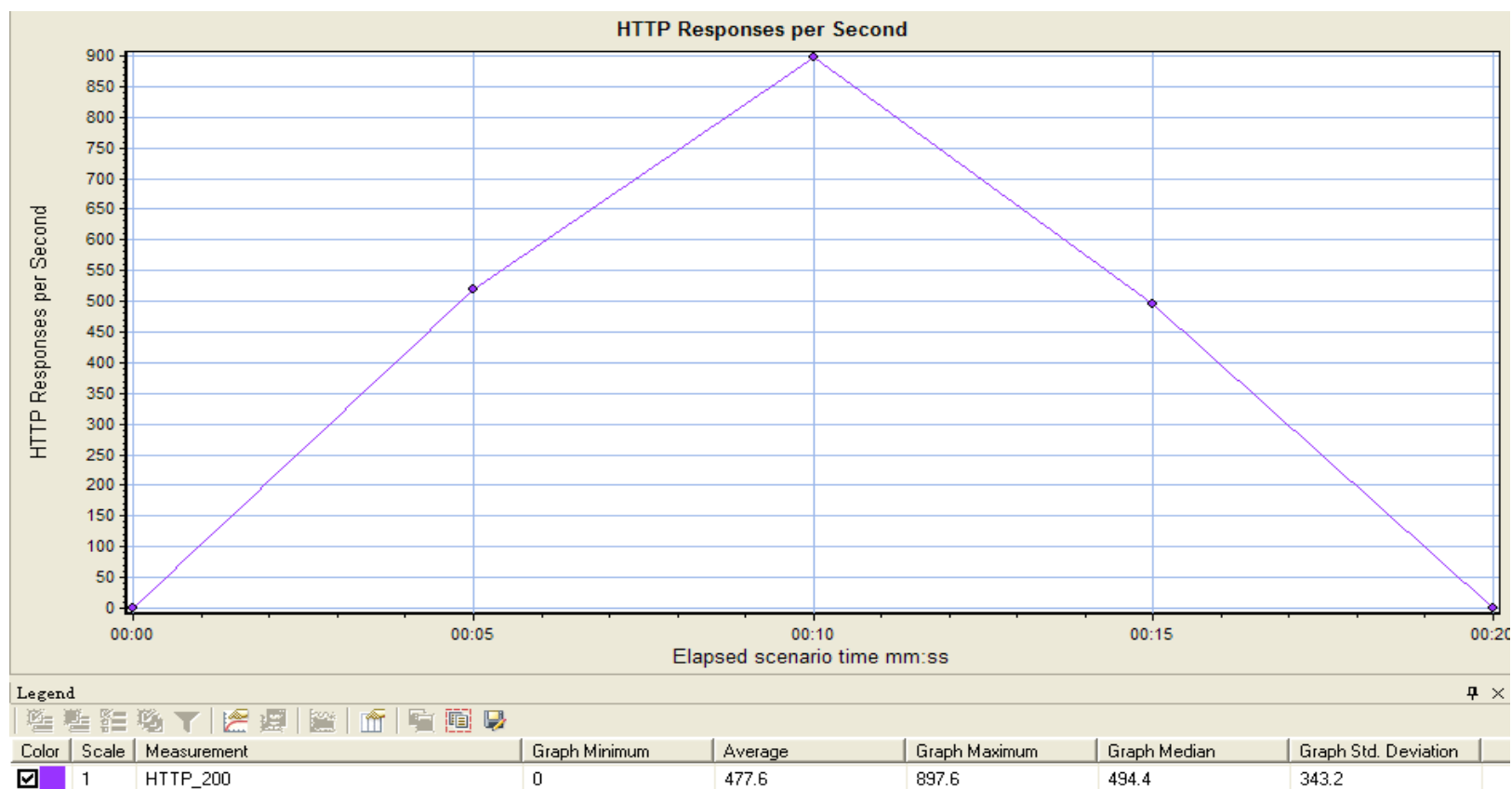


#### (4) TPS



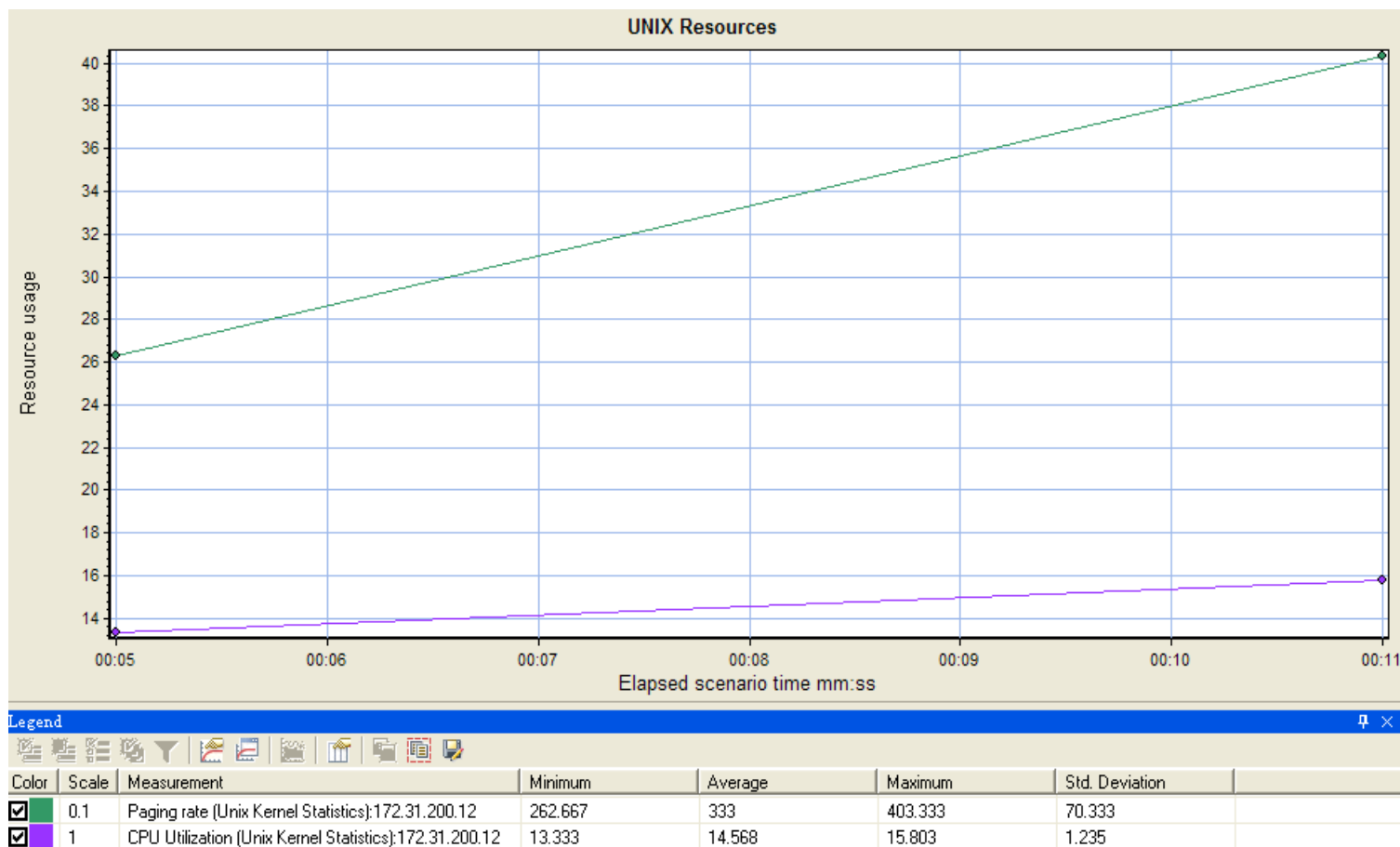


## (5) RPS(Request Per Second)





## (6) UNIX 系统资源





## (7) 列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
320	0.595	7.732	13.159	57,927,582	0	409.143	1142.4	0	17.048	74	0	409.143	1142.4	1.022, 9.177, 22.602	54.667, 195.143, 367.429
340	0.637	8.403	11.43	64,573,422	0	477.6	897.6	0	19.9	57	0	477.6	897.6	13.333, 14.568, 15.803	262.667, 333, 403.333

## 5.3.5.3 并发 350 虚拟用户



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(1)整体概述



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### Statistics Summary

<a href="#">Maximum Running Vusers:</a>	350	
<a href="#">Total Throughput (bytes):</a>	39,610,602	
<a href="#">Average Throughput (bytes/second):</a>	2,084,769	
<a href="#">Total Hits:</a>	7,662	
<a href="#">Average Hits per Second:</a>	403.263	<a href="#">View HTTP Responses Summary</a>
<a href="#">Total Errors:</a>	142	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test Errors	0	28	0	0
	00:00:00	00:00:05	00:00:10	00:00:15

### Transaction Summary

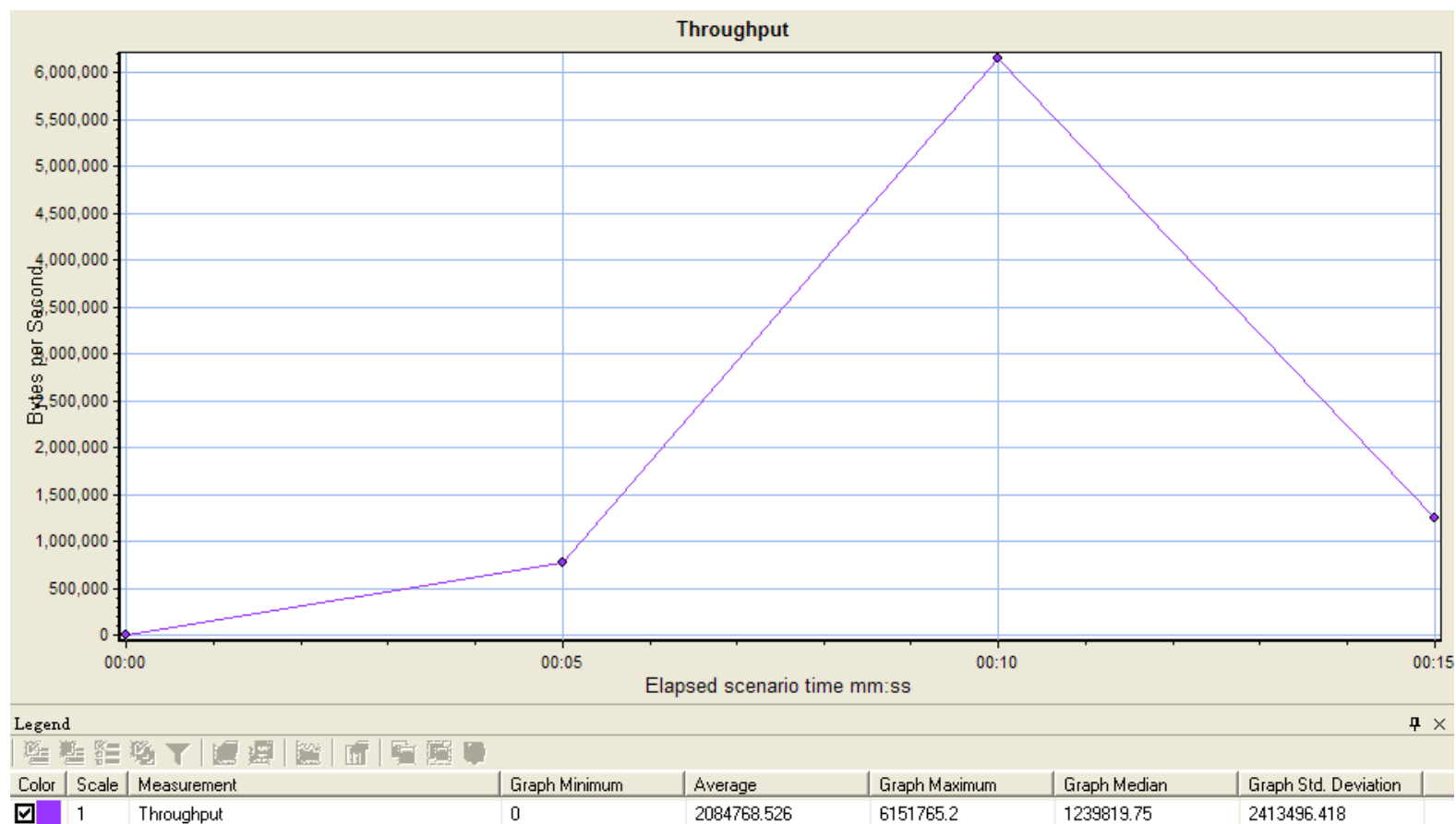
[Transactions:](#) Total Passed: 966 Total Failed: 142 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		1.033	4.697	10.976	2.214	8.306	266	142	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	350	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	350	0	0



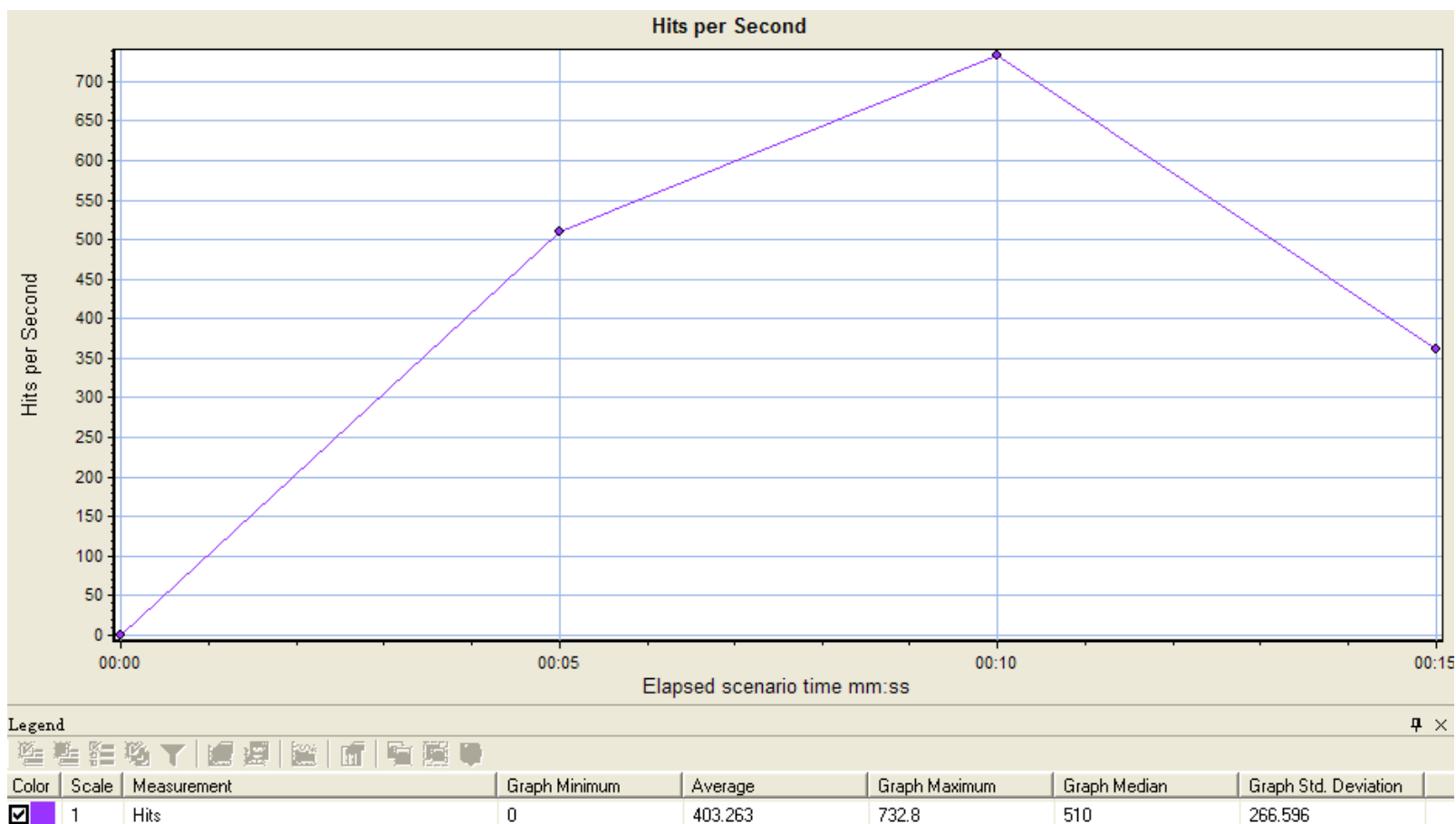


## (2)吞吐量



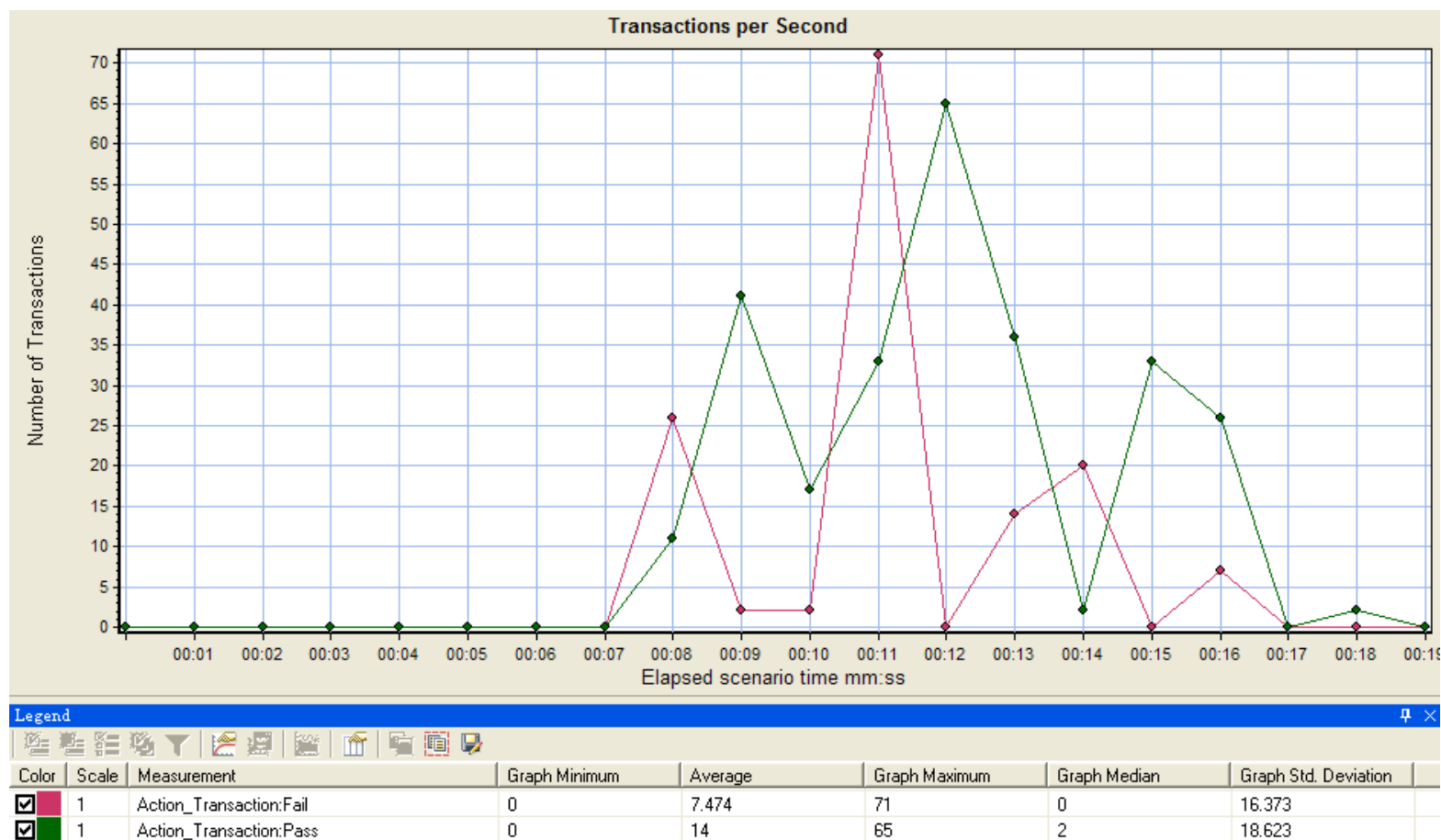


### (3) 点击率



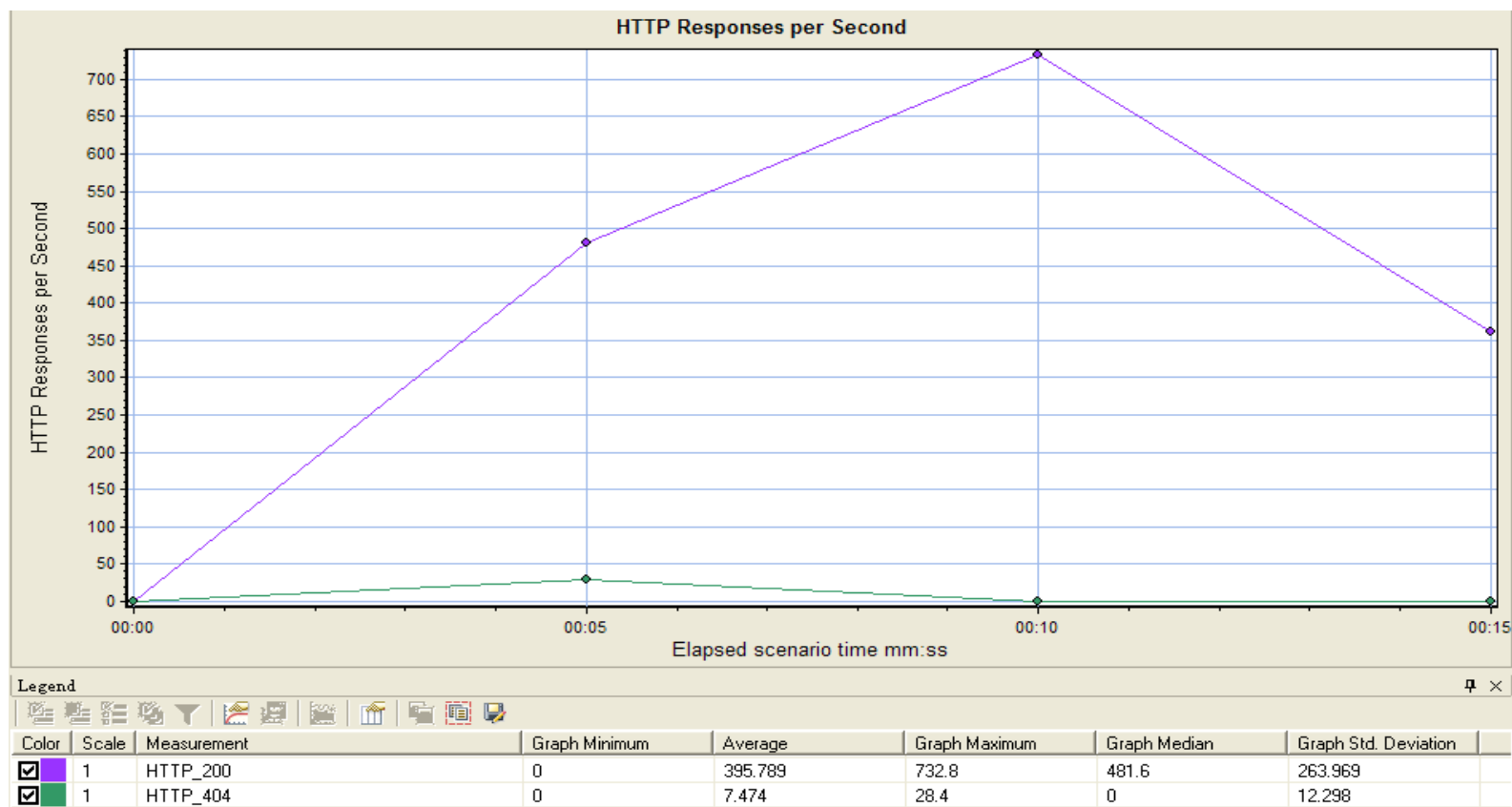


#### (4) TPS



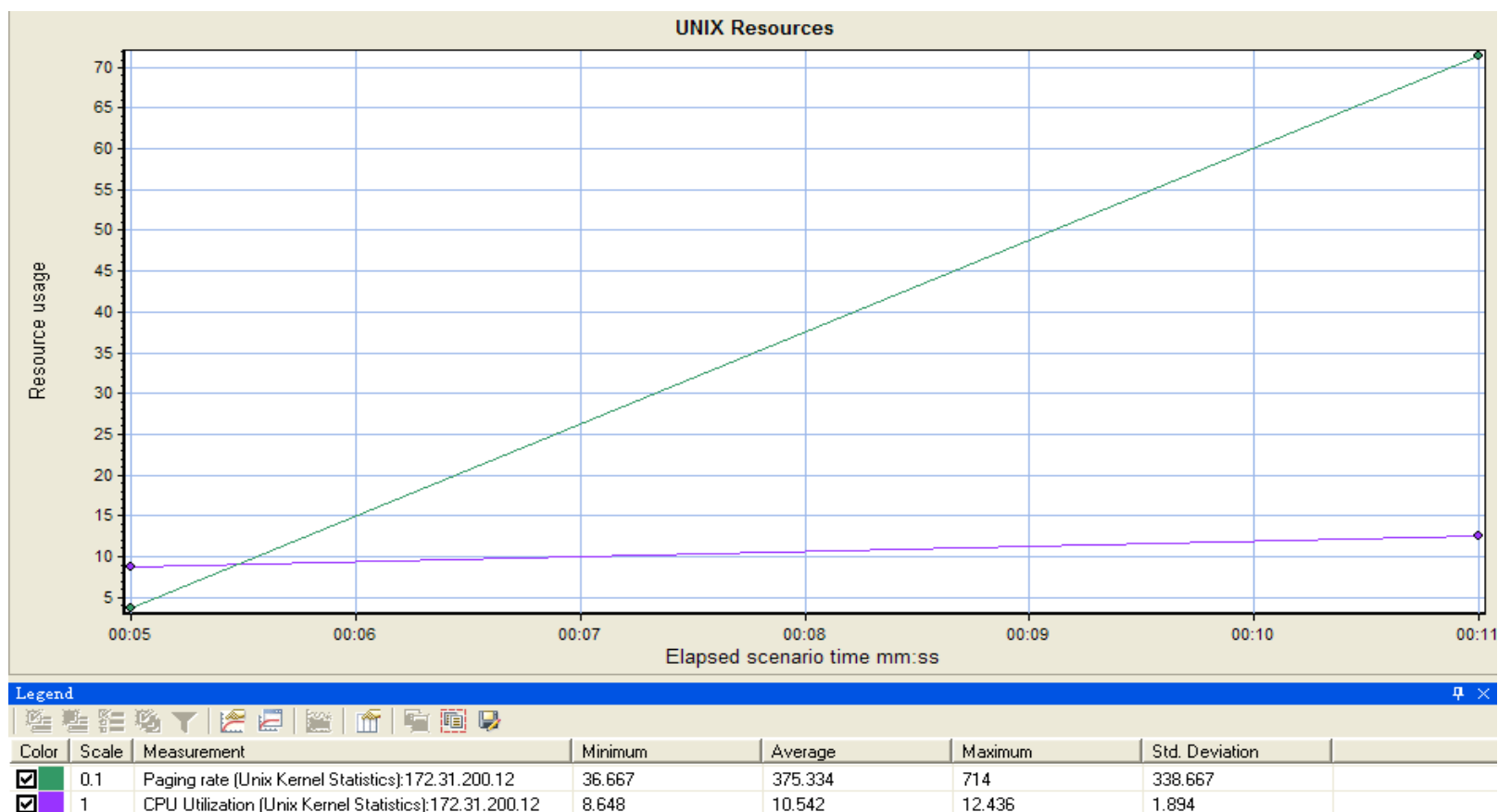


## (5) RPS





## (6)UNIX 系统资源





## (7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
320	0.595	7.732	13.159	57,927,582	0	409.143	1142.4	0	17.048	74	0	409.143	1142.4	1.022, 9.177, 22.602	54.667, 195.143, 367.429
340	0.637	8.403	11.43	64,573,422	0	477.6	897.6	0	19.9	57	0	477.6	897.6	13.333, 14.568, 15.803	262.667, 333, 403.333
350	1.033	8.306	10.976	39,610,602	0	403.263	732.8	0	14	65	0	395.789	732.8	8.648, 10.542, 12.436	36.667, 375.334, 714

## 小结

在运行 350 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：



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2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resource temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 22.602%, Paging Rate 最高为  $403.33 * 0.1 = 40.3$ , 吞吐量最大为: 64,573,422Bytes  
且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 搜索页该单台所能承受的并发最好情况为 340.



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### 5.3.6 媒资详情

#### 5.3.6.1 并发 260 虚拟用户

##### (1)整体概述





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## Statistics Summary

<a href="#">Maximum Running Users:</a>	260	
<a href="#">Total Throughput (bytes):</a>	35,502,740	
<a href="#">Average Throughput (bytes/second):</a>	2,218,921	
<a href="#">Total Hits:</a>	6,240	
<a href="#">Average Hits per Second:</a>	390	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test	0	0	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15

## Transaction Summary

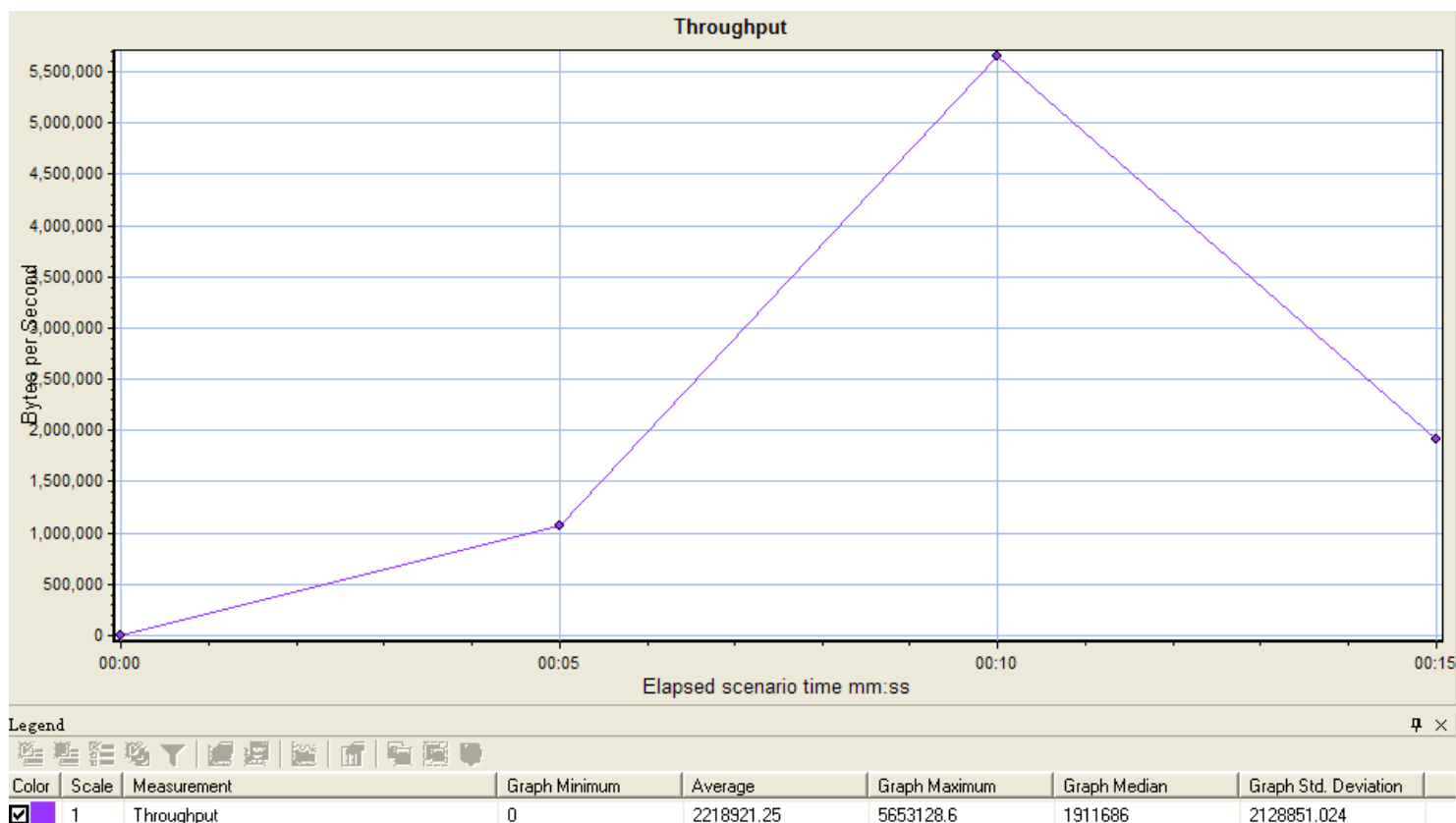
[Transactions:](#) Total Passed: 780 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		2.436	5.684	8.964	1.732	7.691	260	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	260	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.003	0	0.003	260	0	0



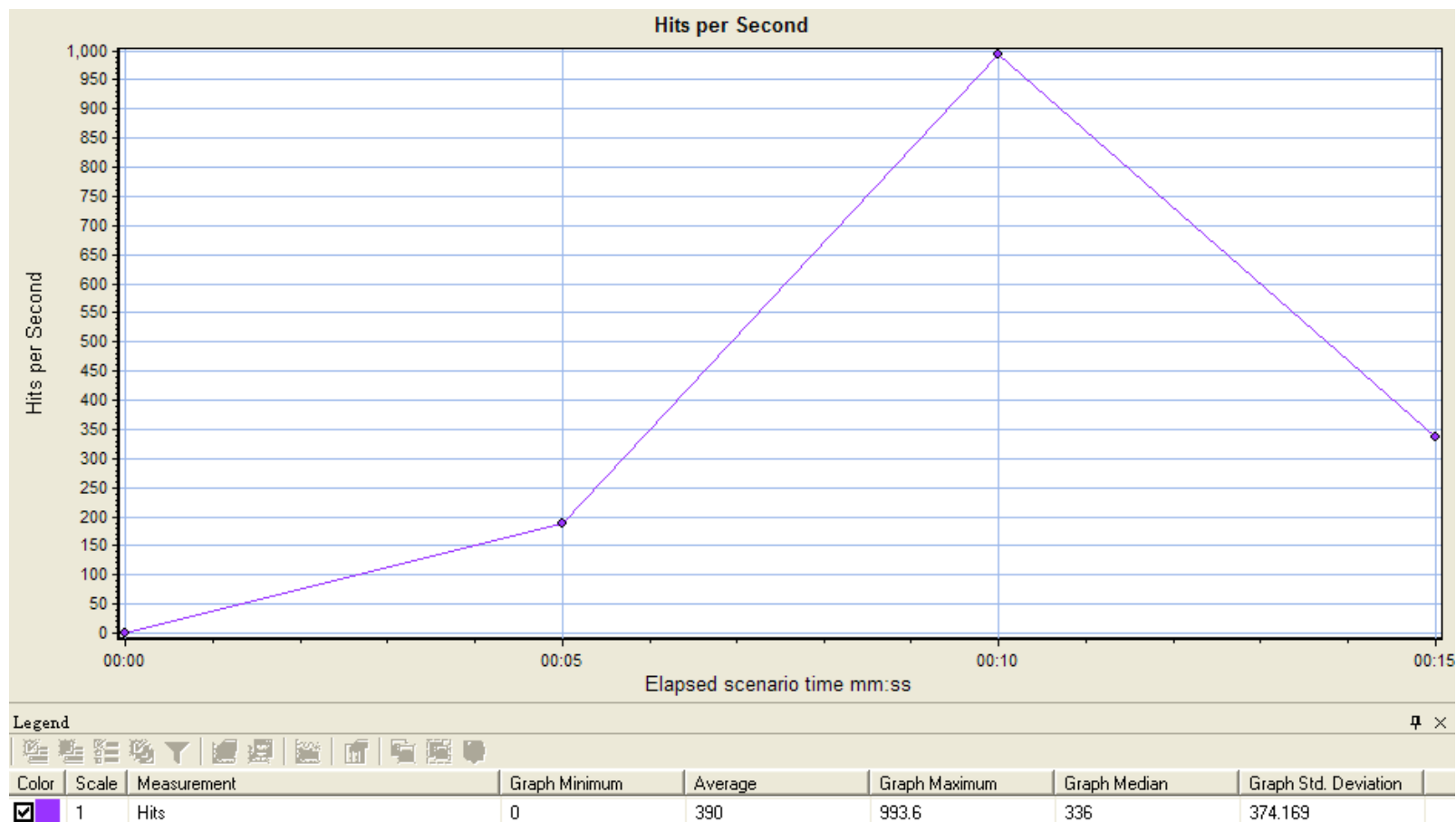
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## (2)吞吐量



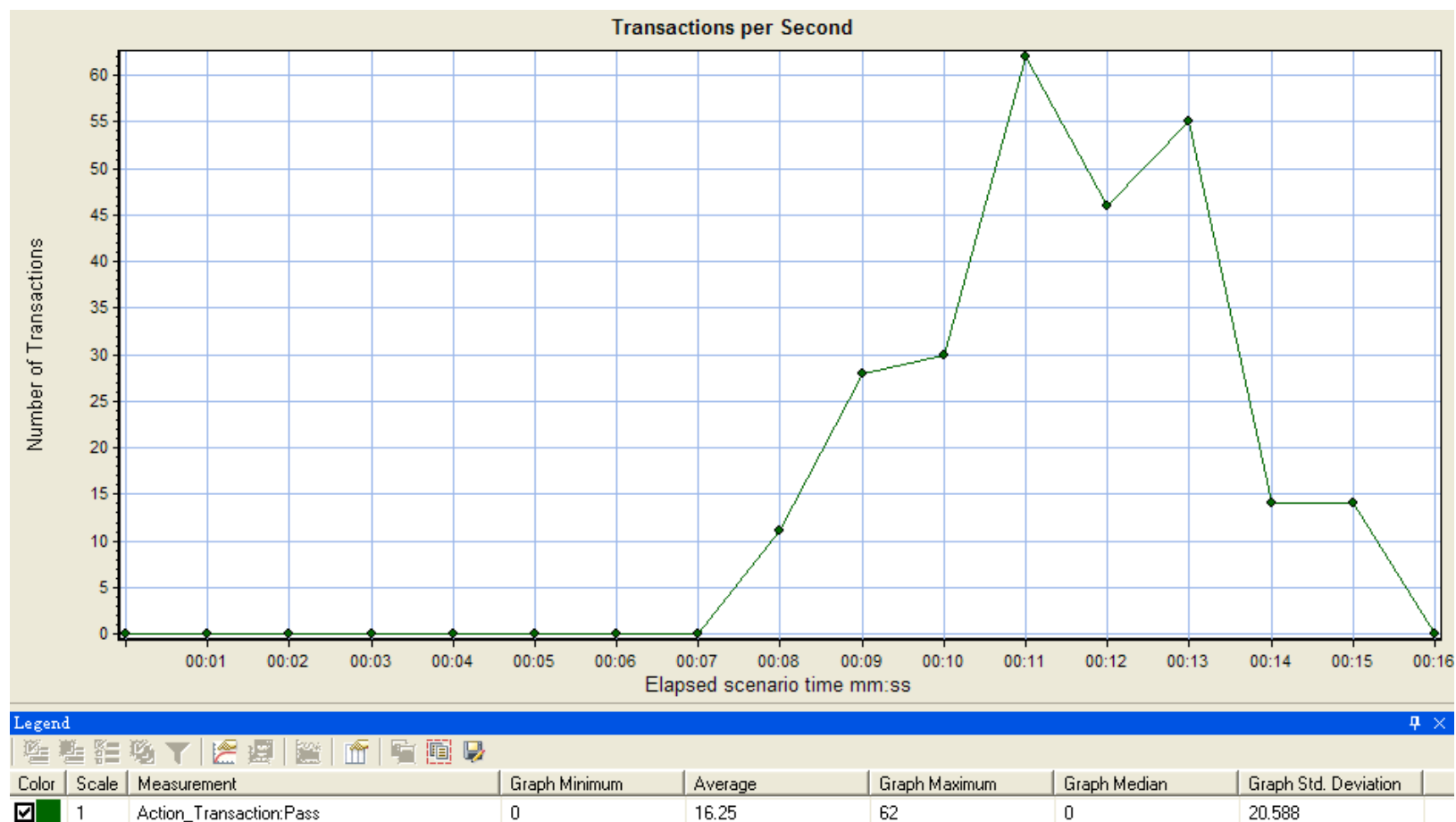


### (3) 点击率



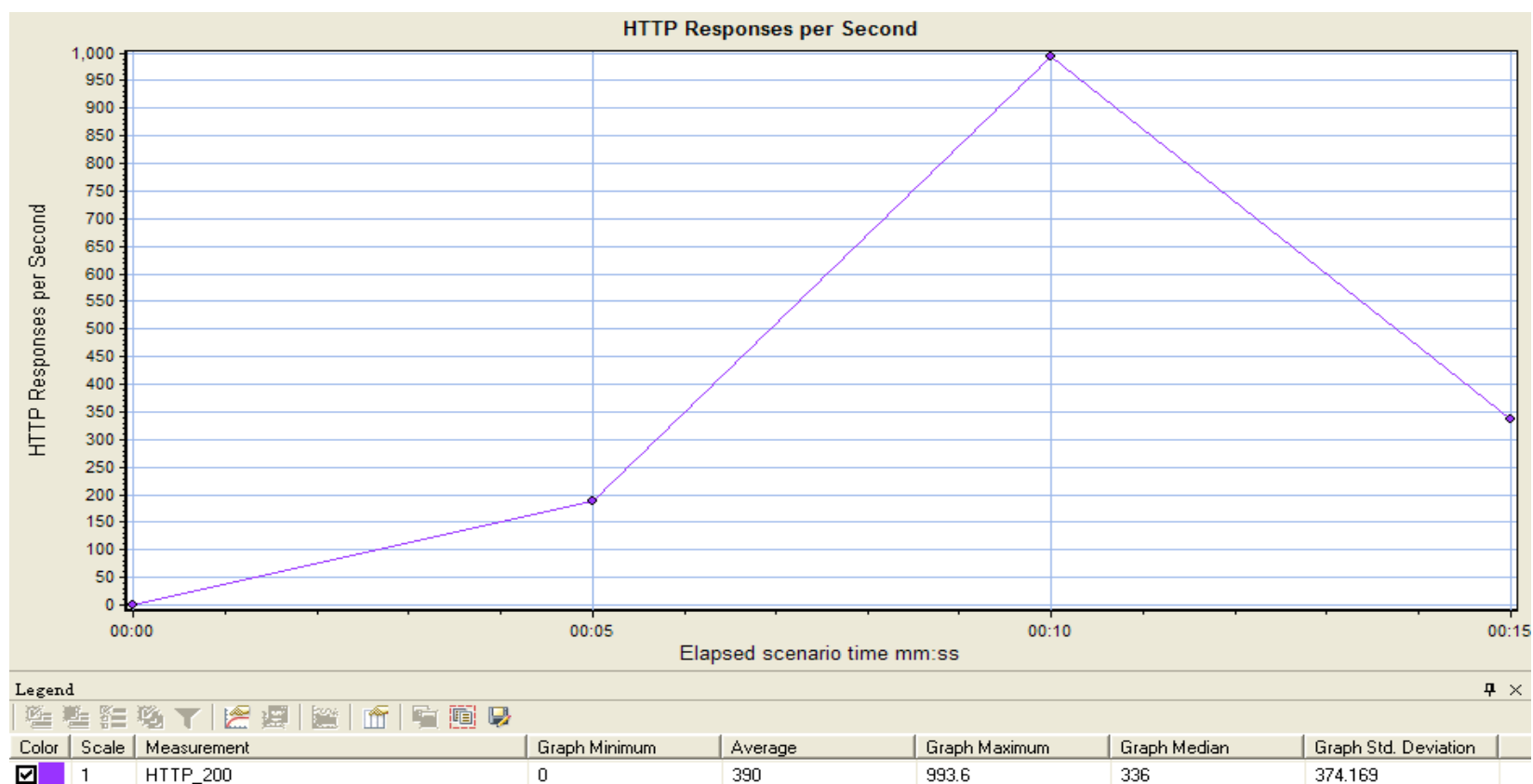


#### (4) TPS



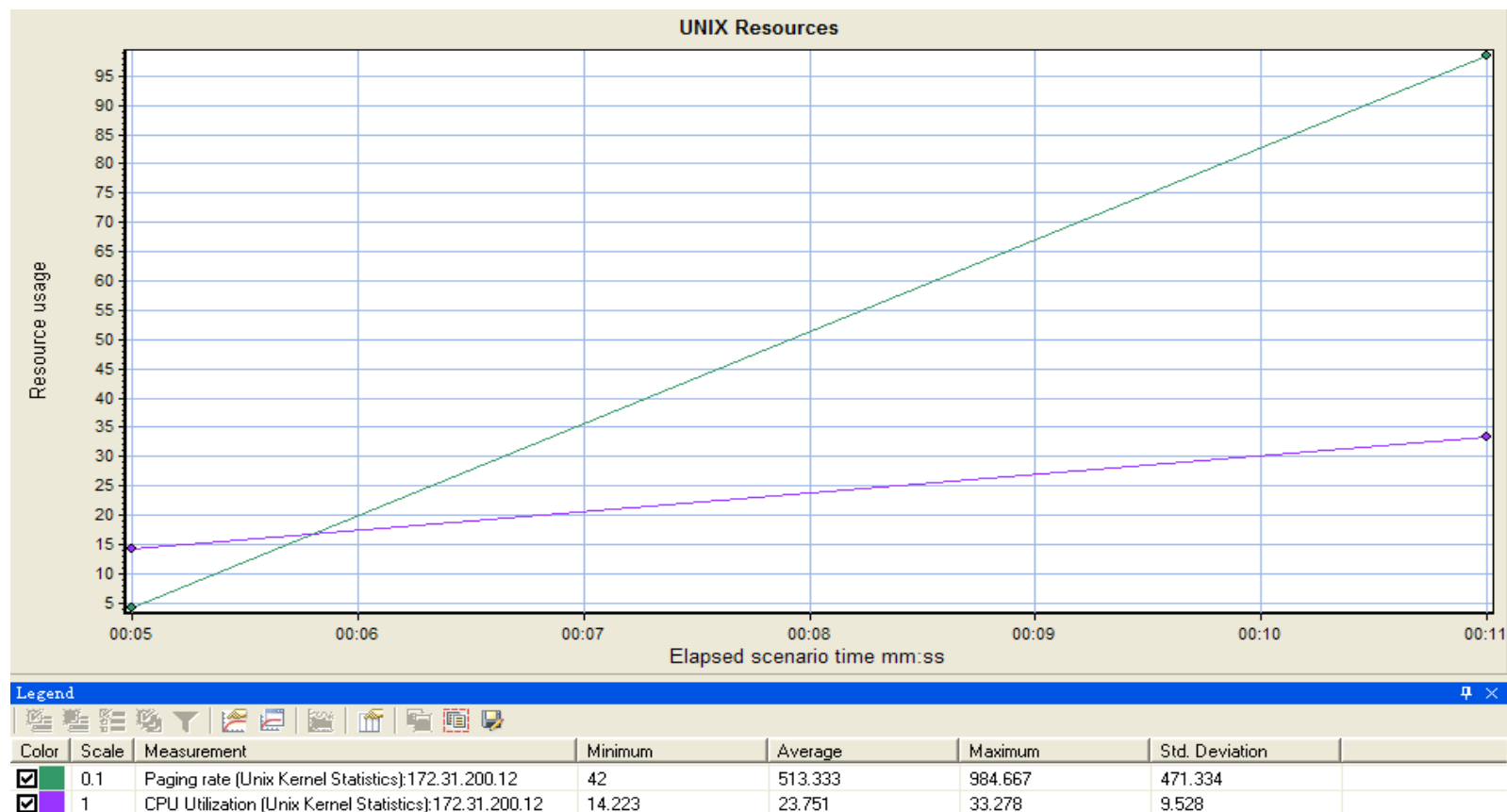


## (5) RPS





## (6) UNIX 系统资源





### (7) 列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
260	2.436	7.691	8.964	35,502,740	0	390	993.6	0	16.25	62	0	390	993.6	14.223, 23.751, 33.278	42,513.333, 984.667

### 5.3.6.2 并发 320 虚拟用户

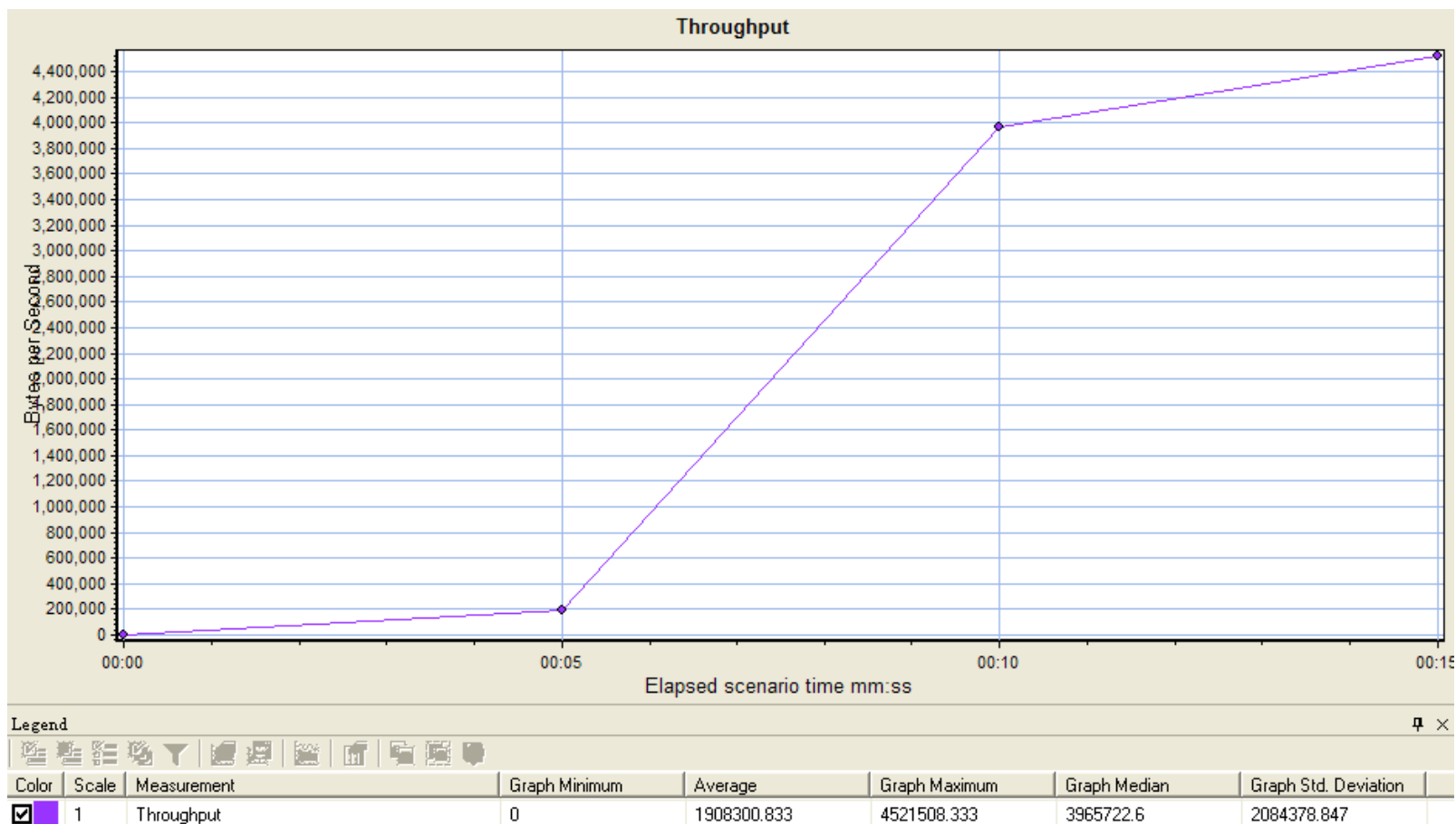






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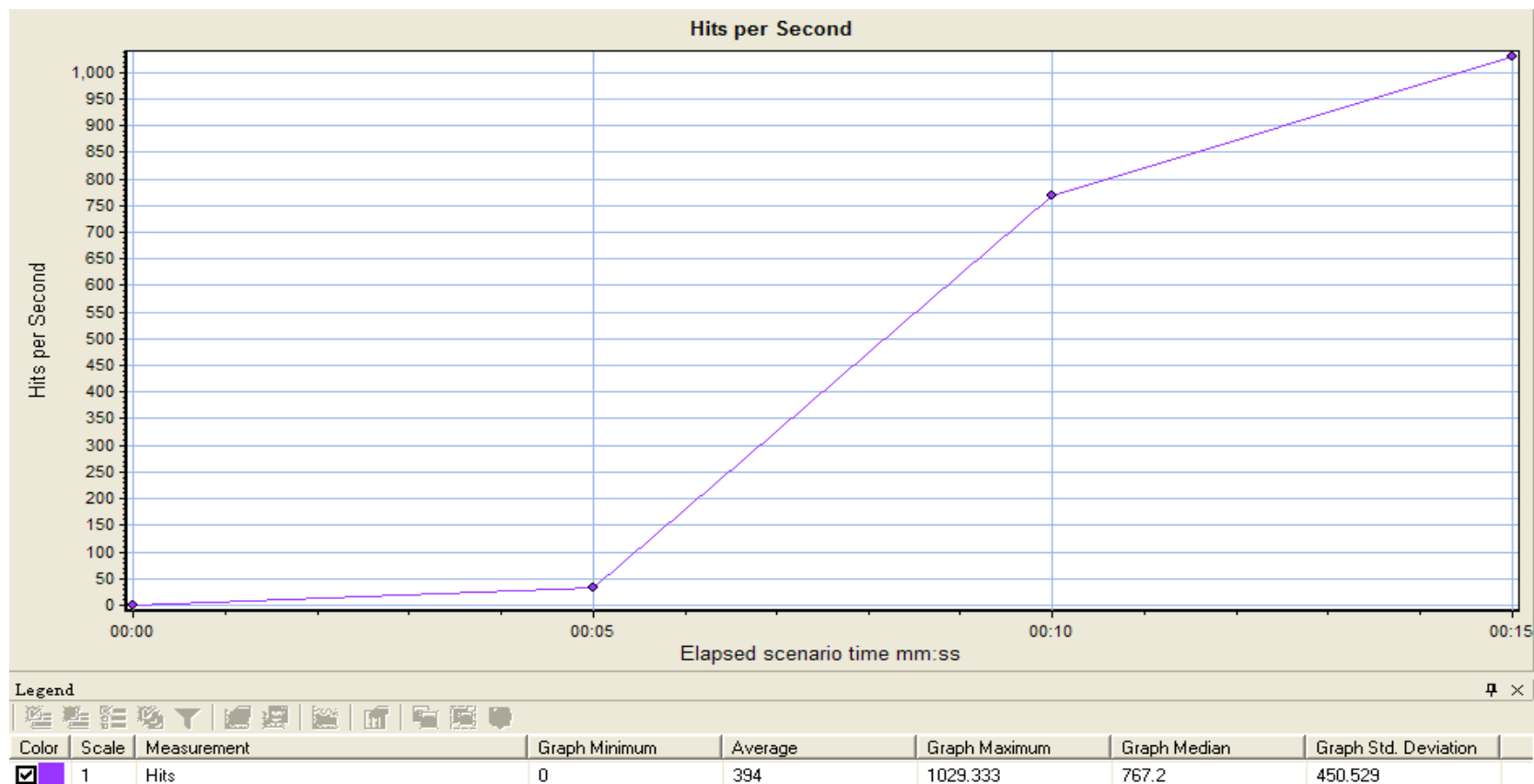
## (2)吞吐量





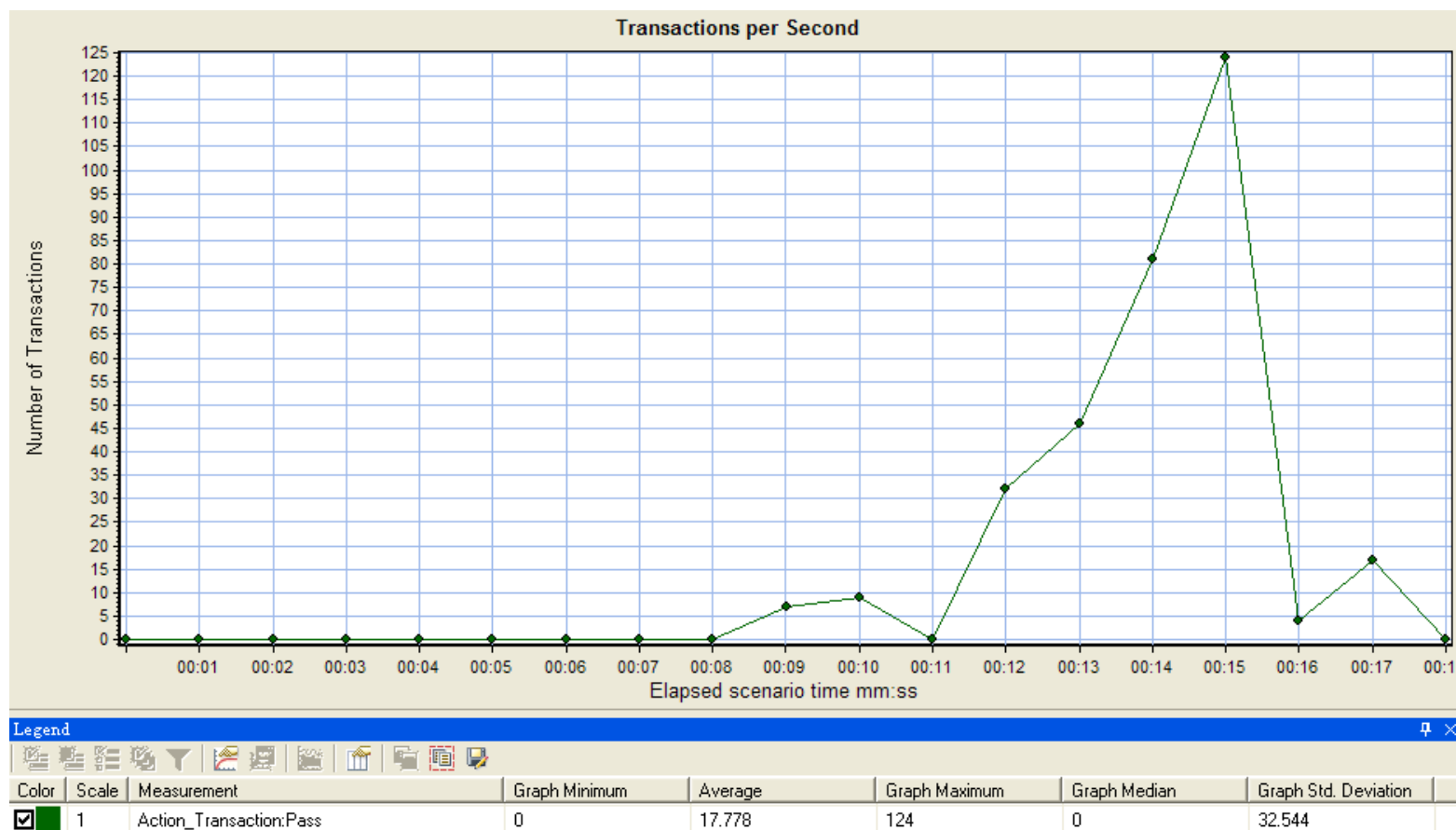
南京广电 EPG 性能测试报告	
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### (3) 点击率



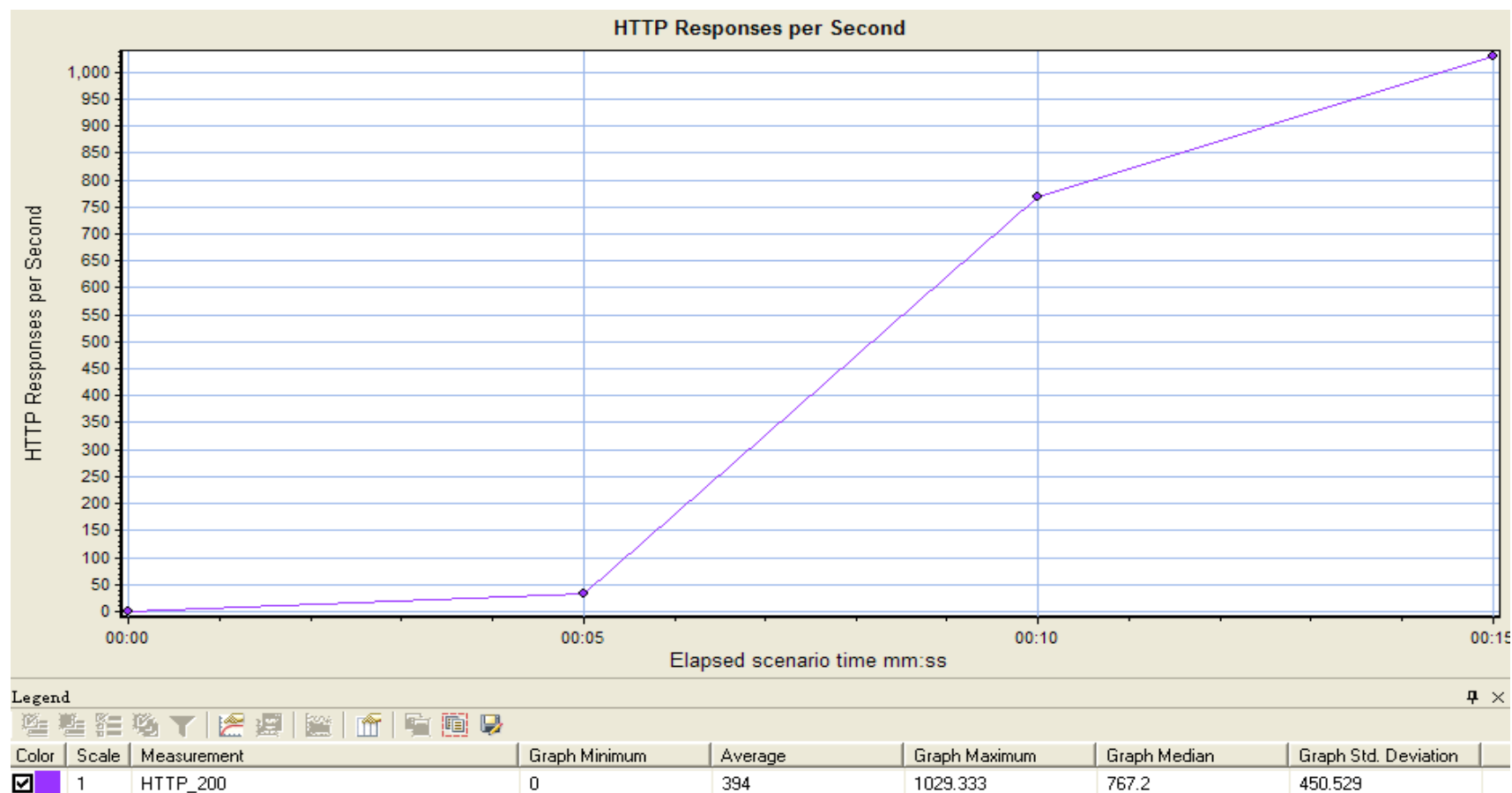


#### (4) TPS



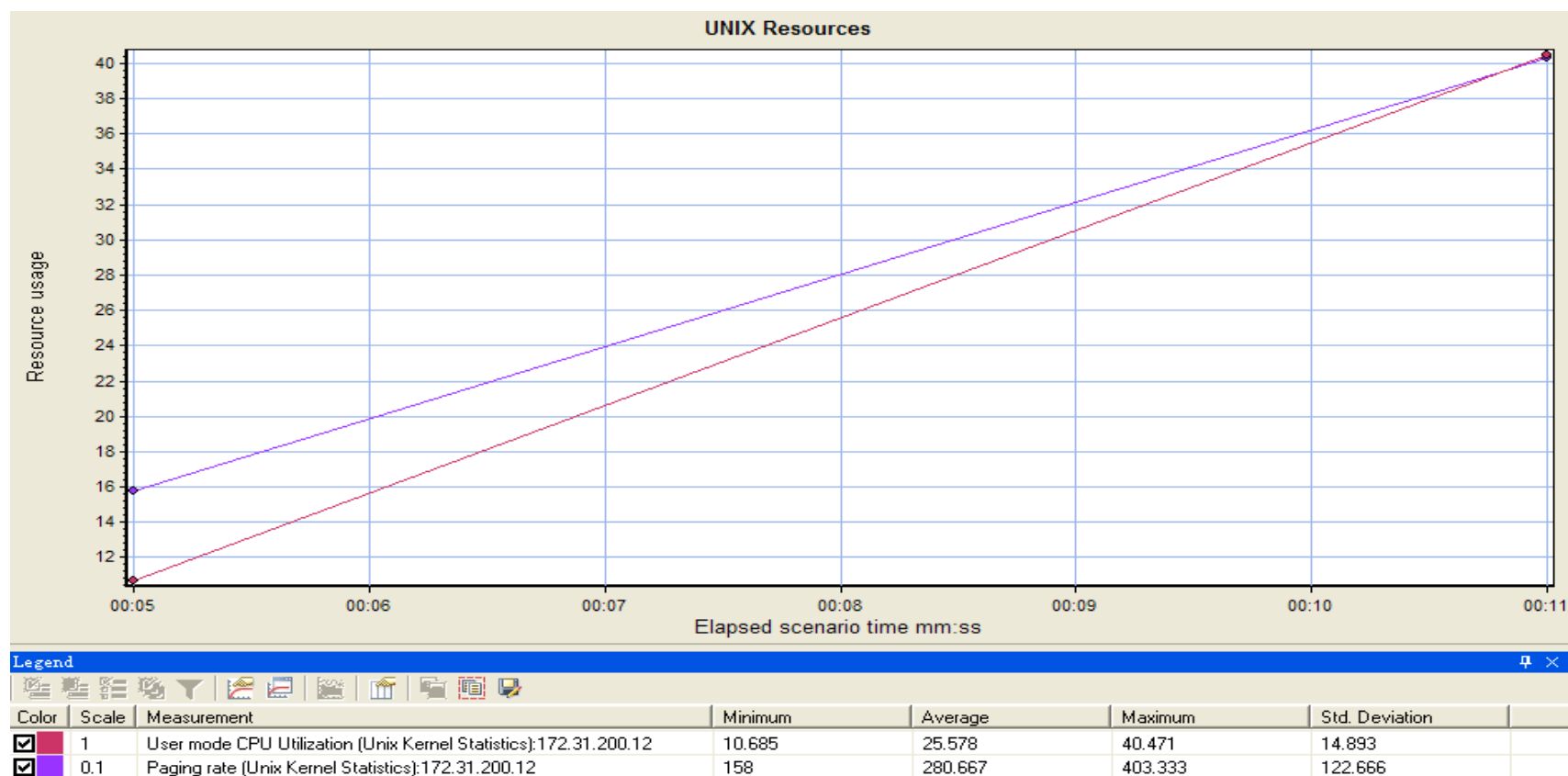


## (5) RPS





## (6) UNIX 系统资源





## (7) 列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
260	2.436	7.691	8.964	35,502,740	0	390	993.6	0	16.25	62	0	390	993.6	14.223, 23.751, 33.278	42,513.333, 984.667
320	2.278	8.436	10.09	34,349,415	0	394	1029.333	0	17.778	124	0	394	1029.333	10.685, 25.578, 40.471	158,280.667, 403.33

## 5.3.6.3 并发 340 虚拟用户



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## (1)整体概述

### Statistics Summary

<b>Maximum Running Vusers:</b>	340	
<b>Total Throughput (bytes):</b>	39,152,481	
<b>Average Throughput (bytes/second):</b>	2,060,657	
<b>Total Hits:</b>	7,765	
<b>Average Hits per Second:</b>	408.684	<a href="#">View HTTP Responses Summary</a>
<b>Total Errors:</b>	1	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

### Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test	0	0.2	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15

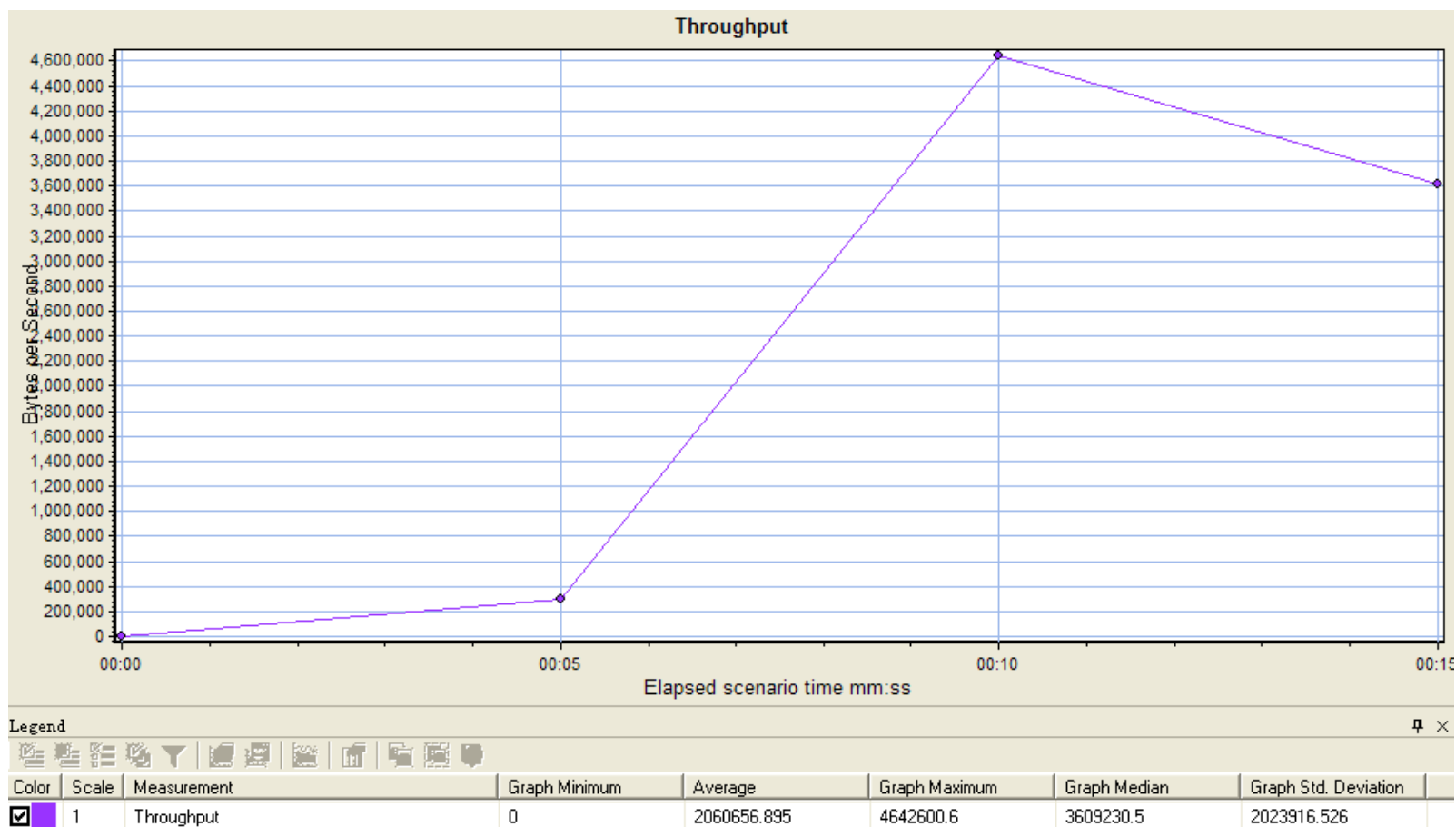
### Transaction Summary

**Transactions:** Total Passed: 1,024 Total Failed: 1 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		1.106	7.013	10.519	2.047	8.945	344	1	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	340	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	340	0	0



## (2)吞吐量

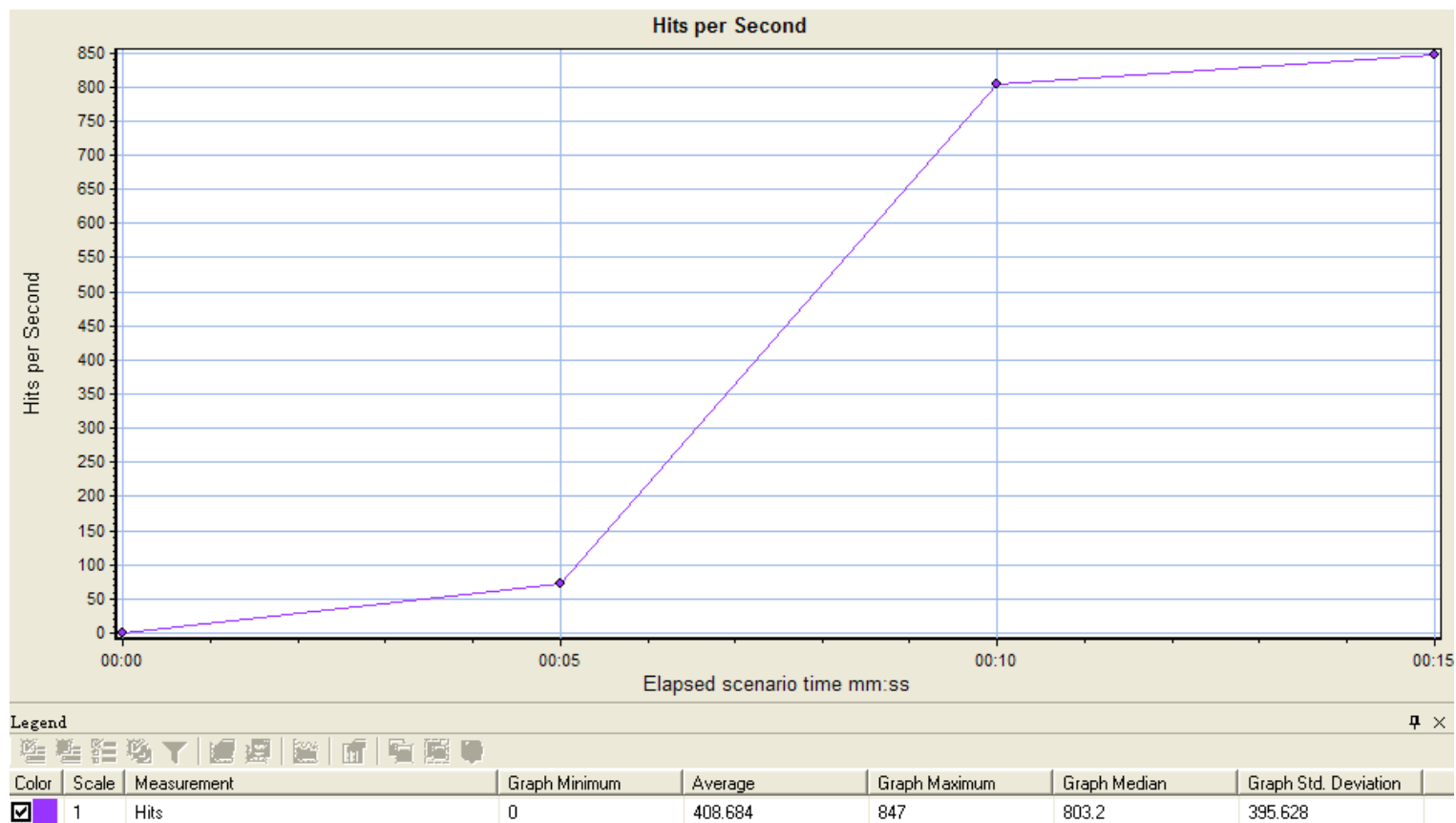






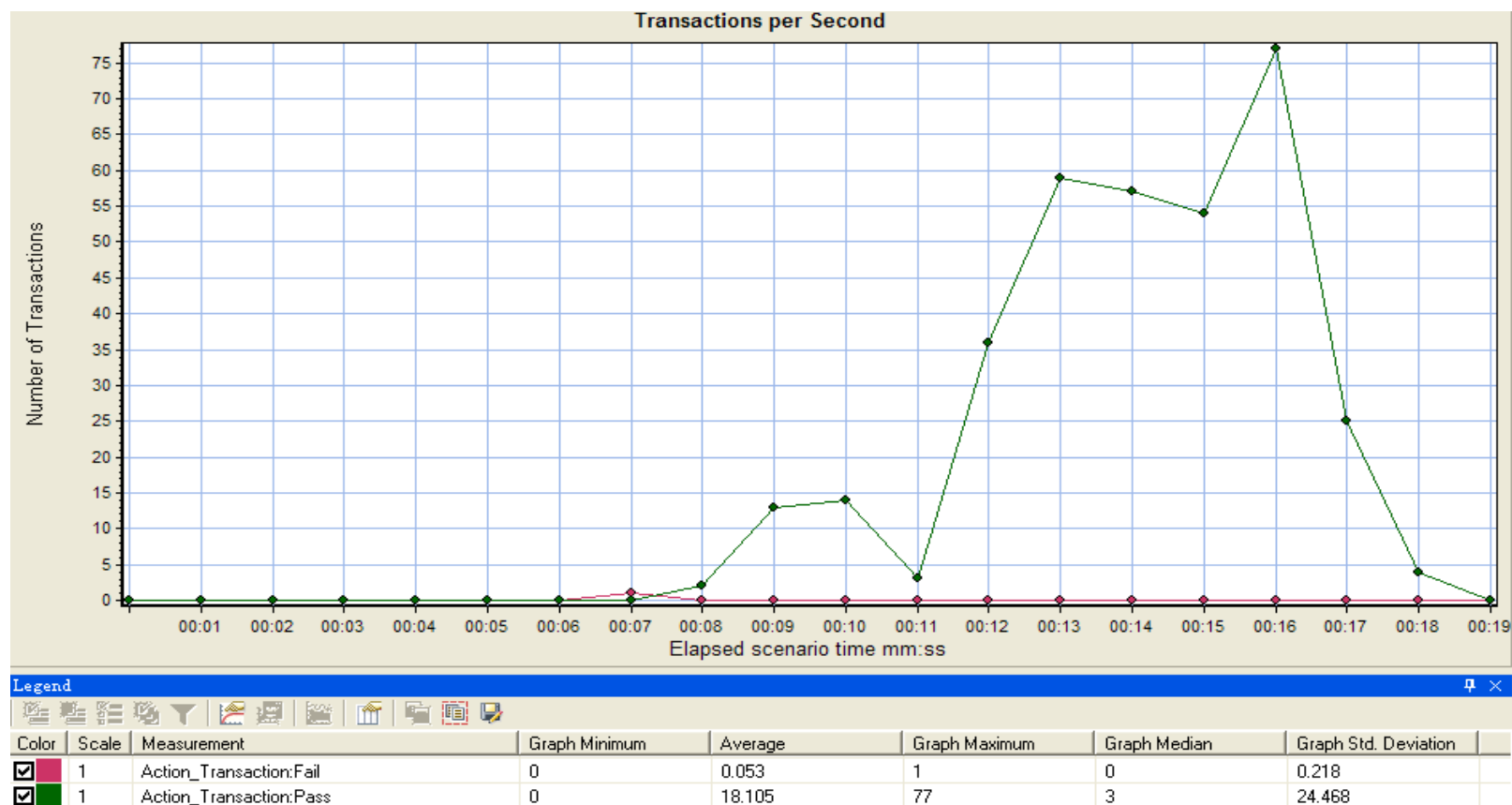
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### (3) 点击率



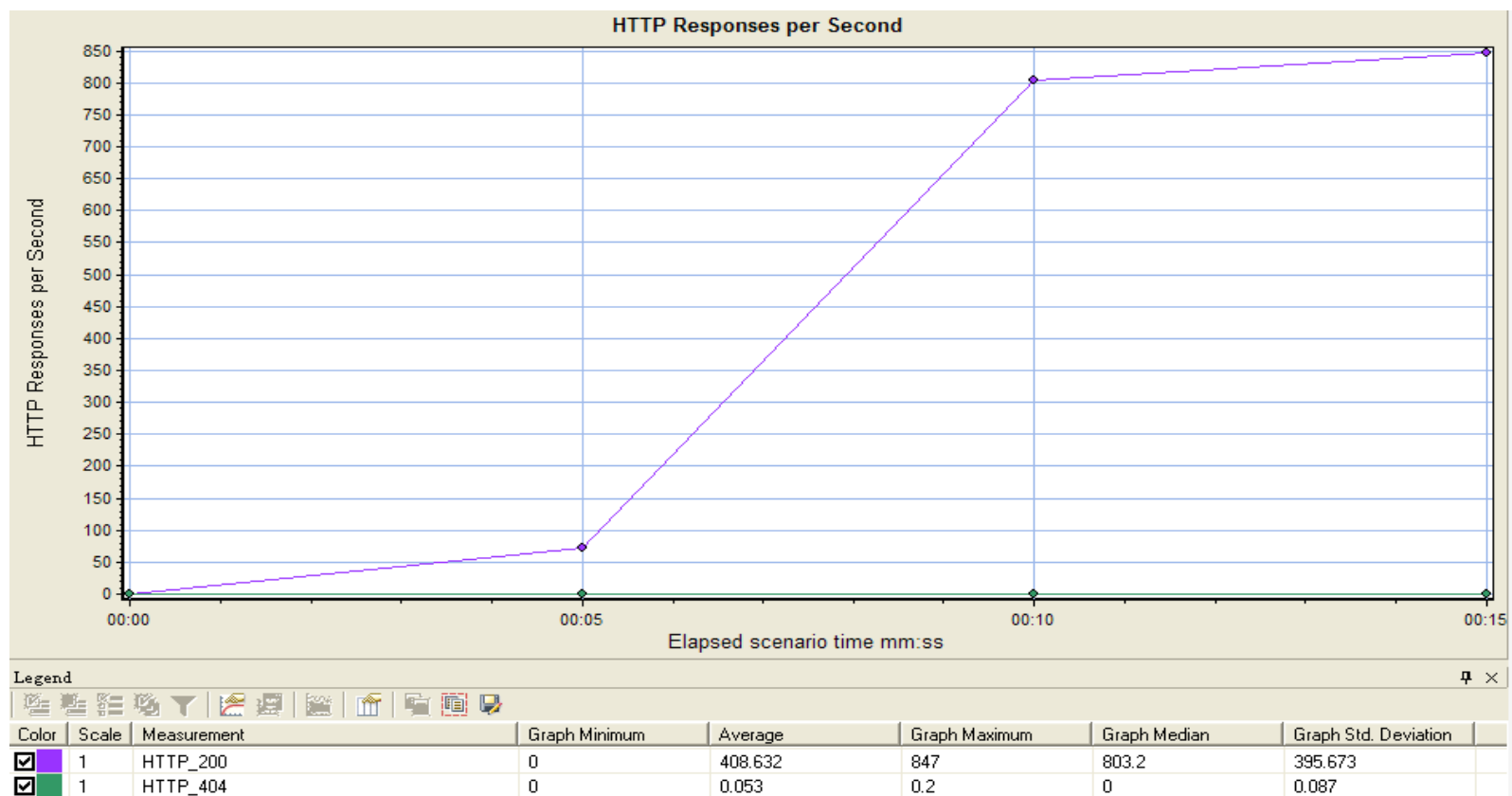


#### (4) TPS



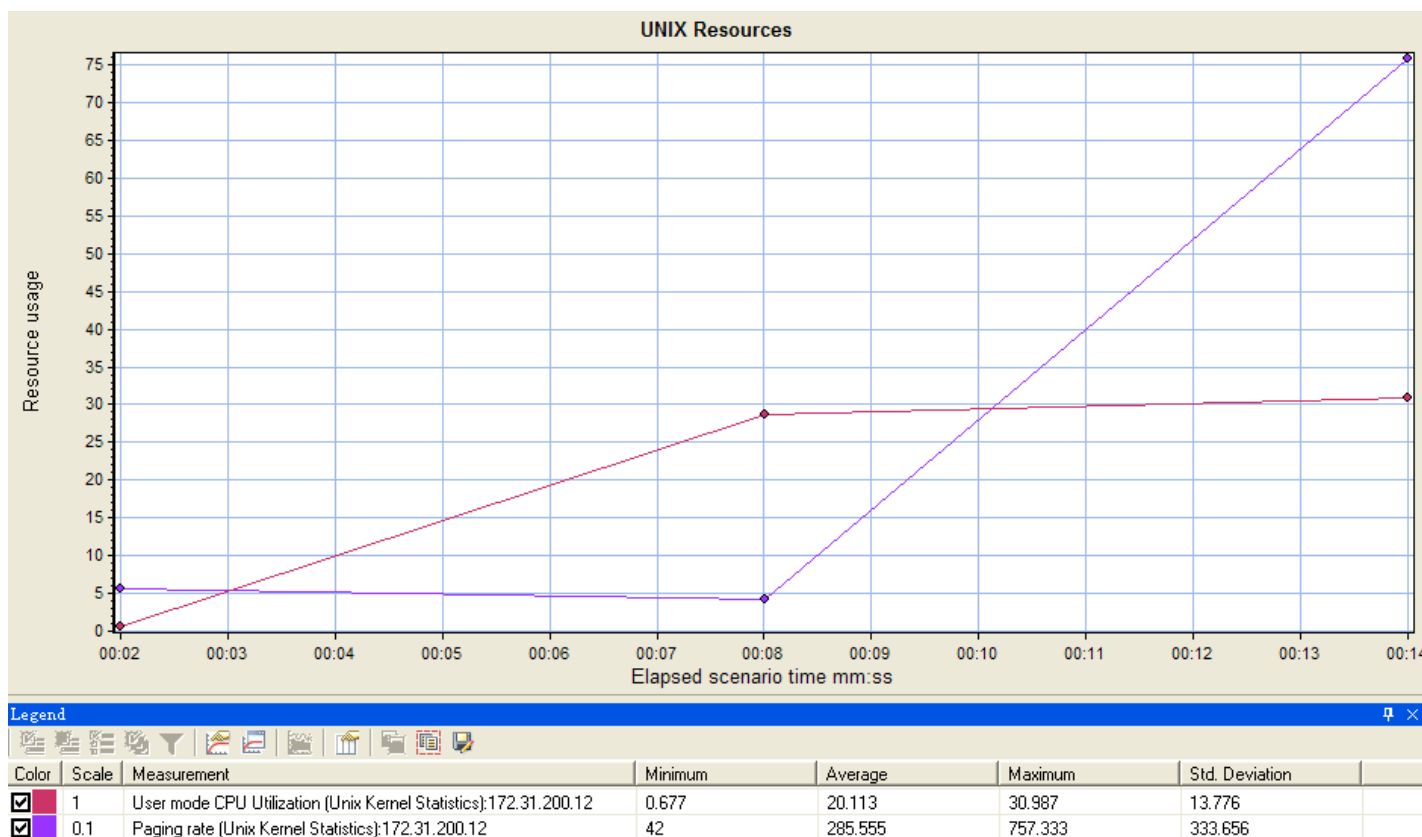


## (5) RPS





## (6) UNIX 系统资源





## (7)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 (Hits per Seconds)			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
260	2.436	7.691	8.964	35,502,740	0	390	993.6	0	16.25	62	0	390	993.6	14.223, 23.751, 33.278	42,513.333, 984.667
320	2.278	8.436	10.09	34,349,415	0	394	1029.333	0	17.778	124	0	394	1029.333	10.685, 25.578, 40.471	158,280.667, 403.33
340	1.106	8.945	10.519	39,152,481	0	408.684	847	0	18.105	77	0	408.632	847	0.677, 20.113, 30.987	42,285.555, 757.333

## 小结

在运行 340 虚拟用户进行访问时，LR 上报错是 http Status-code=404；服务器端日志错误为：



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2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resource temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 40.471%, Paging Rate 最高为  $984.447 * 0.1 = 98.4$ , 吞吐量最大为: 39,152,481Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 媒资详情页该单台所能承受的并发最好情况为 320.



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## 5.3.7 专题详情

### 5.3.7.1 并发 220 虚拟用户

#### (1)整体概述



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## Statistics Summary

<b>Maximum Running Vusers:</b>	220	
<b>Total Throughput (bytes):</b>	52,826,470	
<b>Average Throughput (bytes/second):</b>	3,107,439	
<b>Total Hits:</b>	6,690	
<b>Average Hits per Second:</b>	393.529	<a href="#">View HTTP Responses Summary</a>

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test	0	0	0	0
Errors	00:00:00	00:00:05	00:00:10	00:00:15

## Transaction Summary

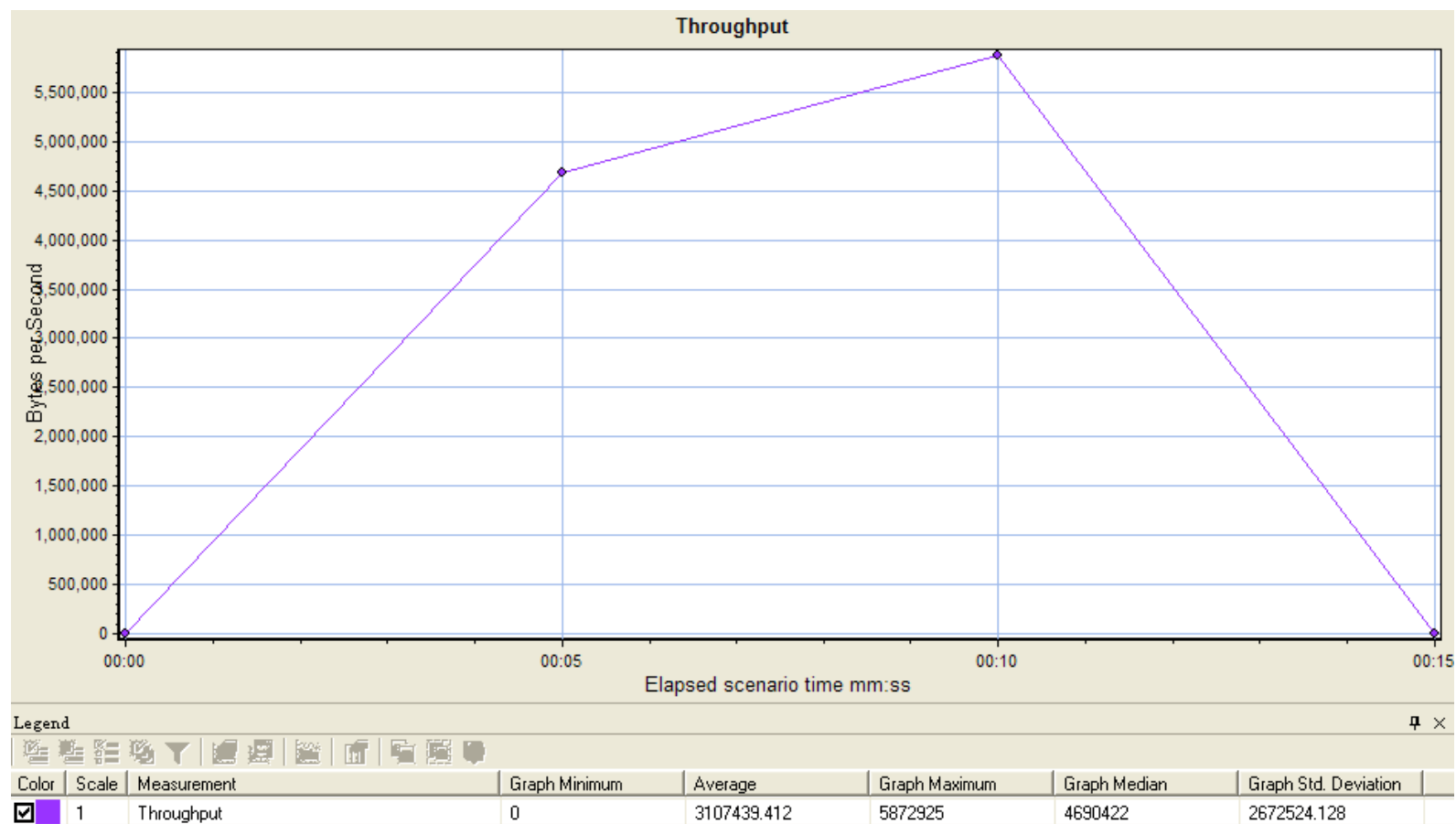
**Transactions:** Total Passed: 663 Total Failed: 0 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		1.146	6.278	11.389	2.84	10.691	223	0	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	220	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.002	0	0.002	220	0	0



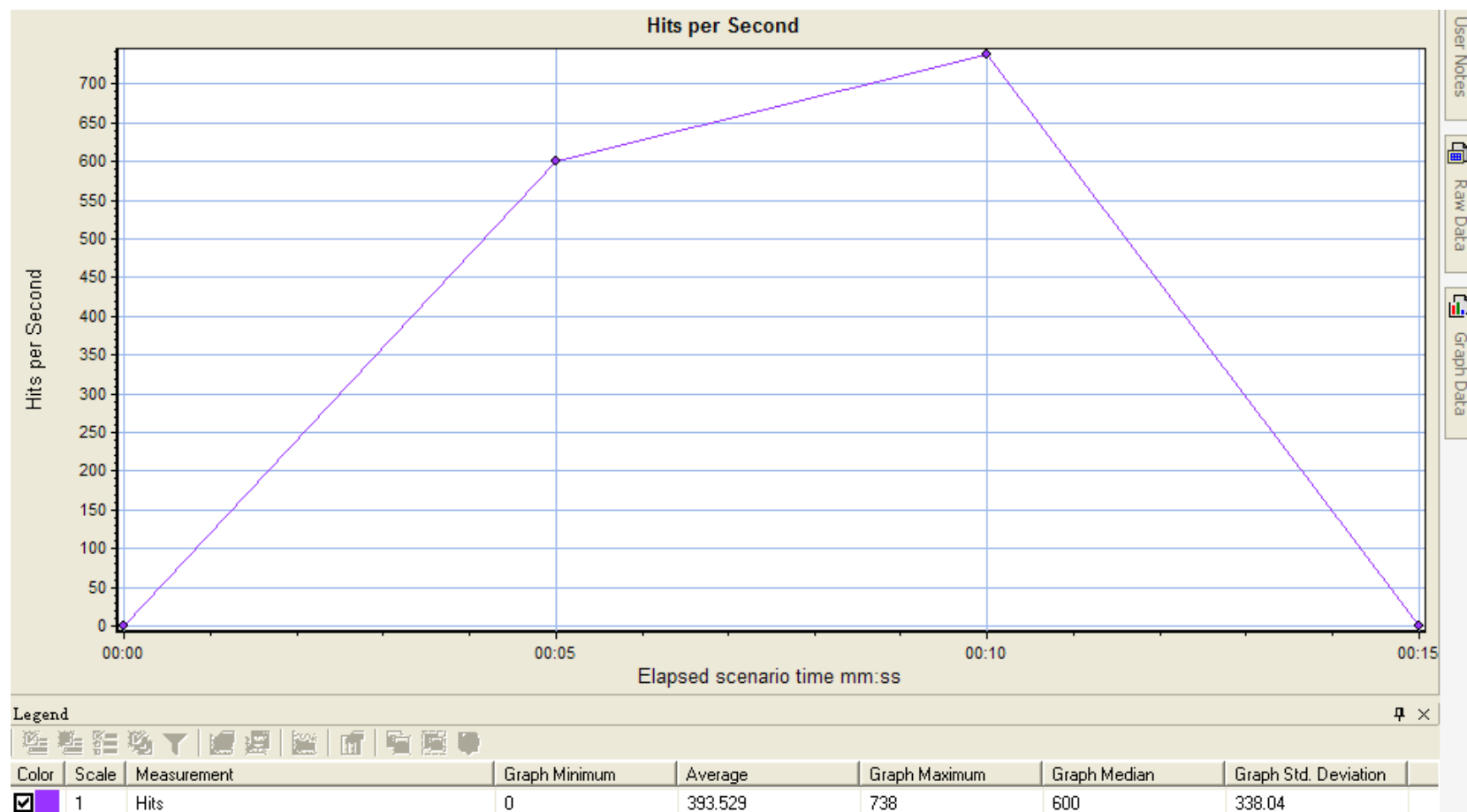


## (2)吞吐量



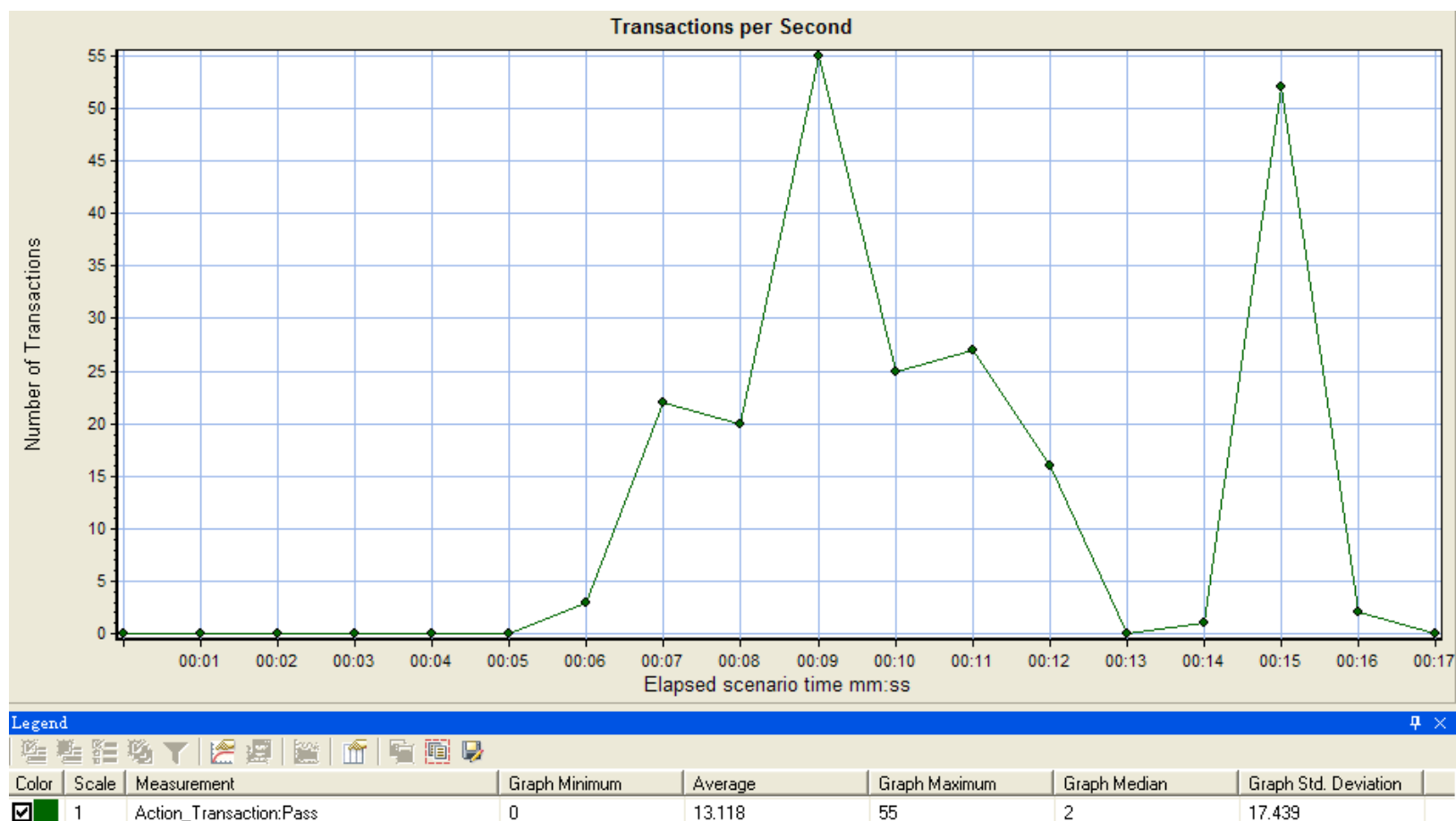


### (3) 点击率





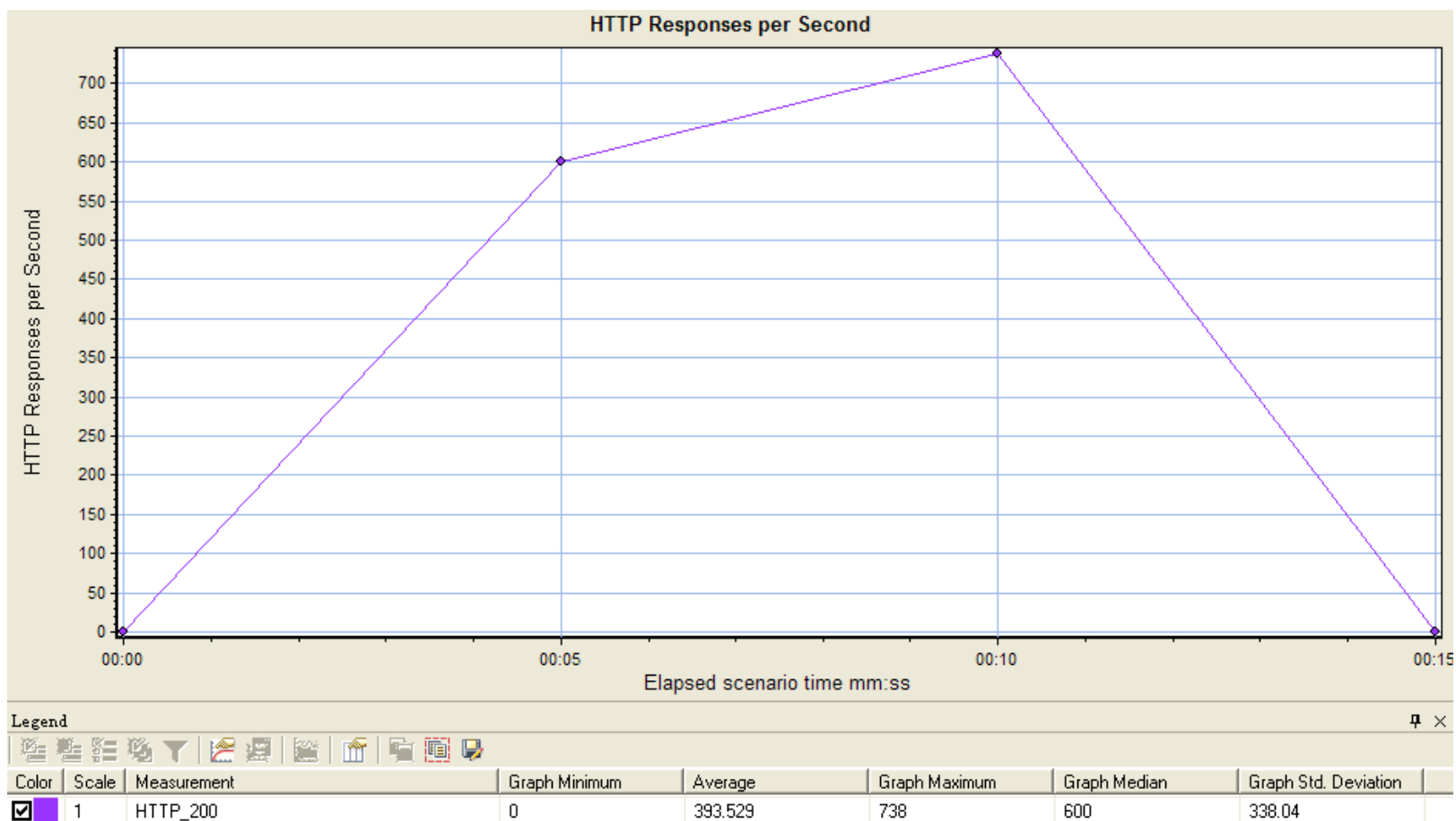
#### (4)TPS





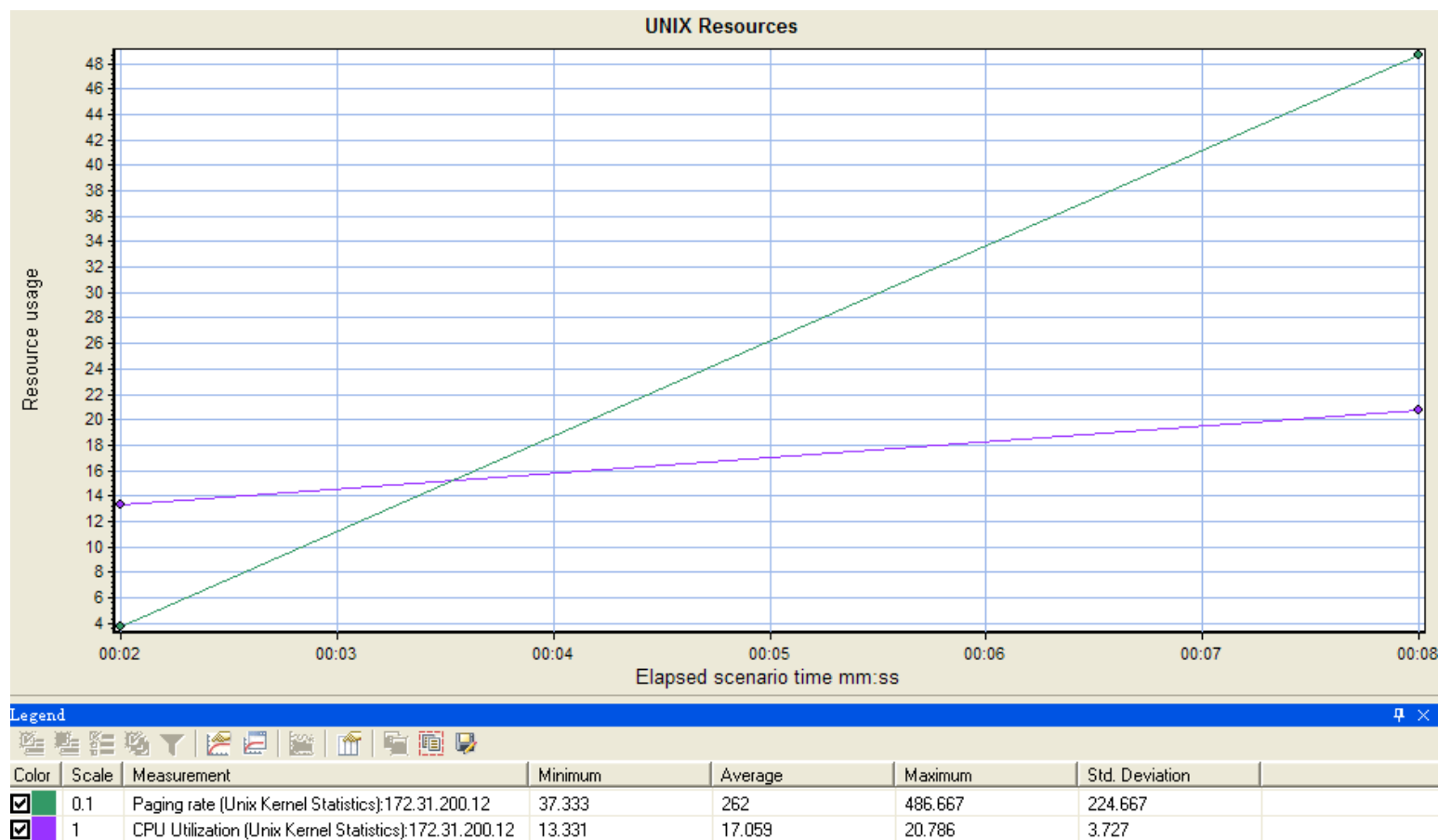
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## (5)RPS





## (6)UNIX 系统资源





(3)列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 ( Hits per Seconds )			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
220	1.146	10.691	11.389	52,826,470	0	393.529	738	0	13.118	55	0	393.529	738	13.331, 17.059, 20.786	37.333, 262, 486.667

5.3.7.2 并发 240 虚拟用户

(1)整体概述



南京广电 EPG 性能测试报告	
版本	2.0
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## Statistics Summary

<b>Maximum Running Vusers:</b>	240	
<b>Total Throughput (bytes):</b>	57,180,346	
<b>Average Throughput (bytes/second):</b>	3,363,550	
<b>Total Hits:</b>	7,258	
<b>Average Hits per Second:</b>	426.941	<a href="#">View HTTP Responses Summary</a>
<b>Total Errors:</b>	4	

You can define SLA data using the [SLA configuration wizard](#)

You can analyze transaction behavior using the [Analyze Transaction mechanism](#)

## Scenario Behavior Over Time

The SLA status of the following measurements displayed over time. You can select a specific time range for each transaction in order to analyze the time range.

Measurement Name	Time Ranges			
Application Under Test	0	0.8	0	0
Errors	00:00:00:00	00:00:00:05	00:00:00:10	00:00:00:15

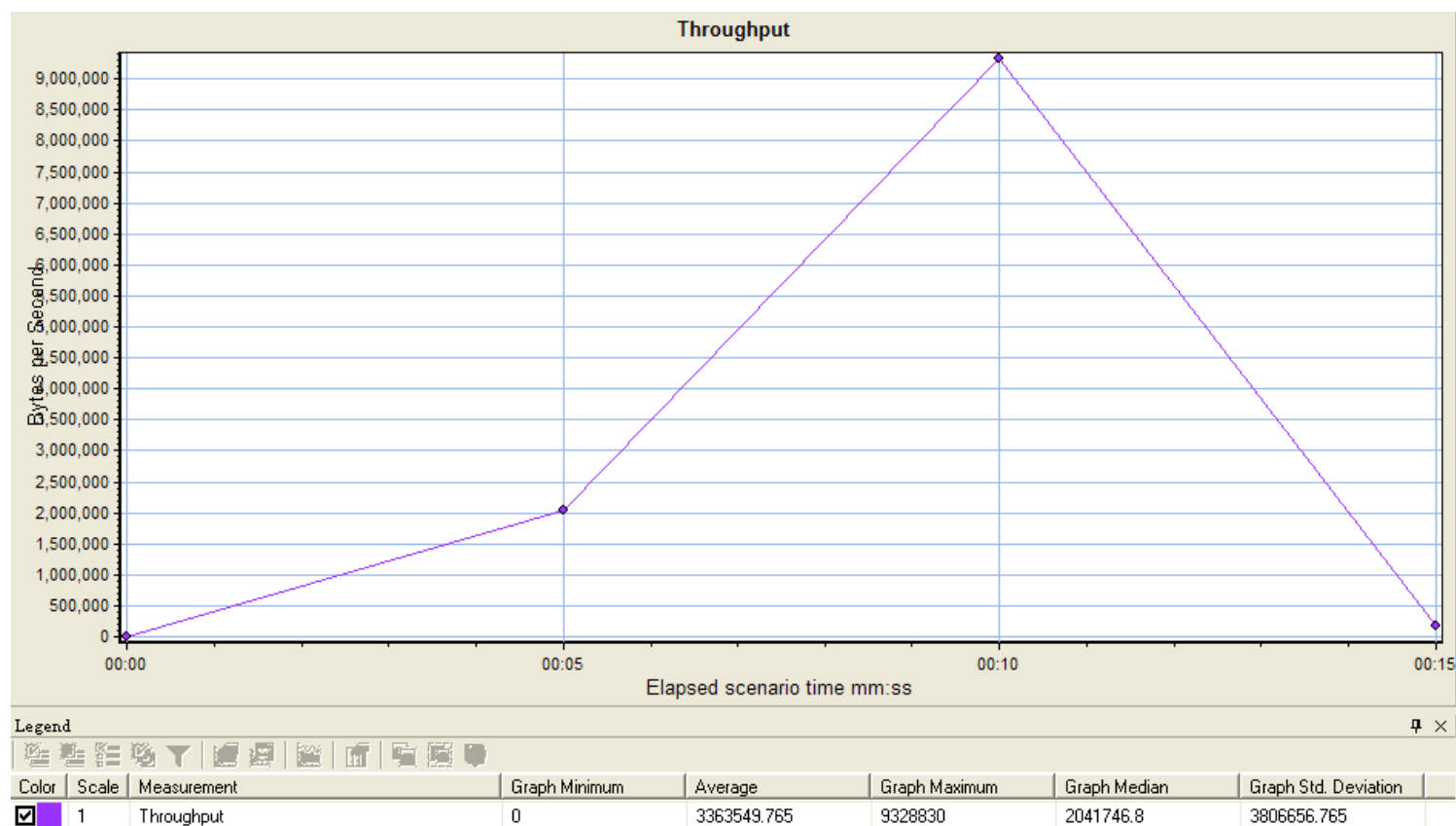
## Transaction Summary

**Transactions:** Total Passed: 721 Total Failed: 4 Total Stopped: 0 [Average Response Time](#)

Transaction Name	SLA Status	Minimum	Average	Maximum	Std. Deviation	90 Percent	Pass	Fail	Stop
<a href="#">Action Transaction</a>		0.894	6.872	11.37	2.655	10.726	241	4	0
<a href="#">vuser_end Transaction</a>		0	0	0	0	0	240	0	0
<a href="#">vuser_init Transaction</a>		0	0	0.001	0	0.001	240	0	0



## (2)吞吐量

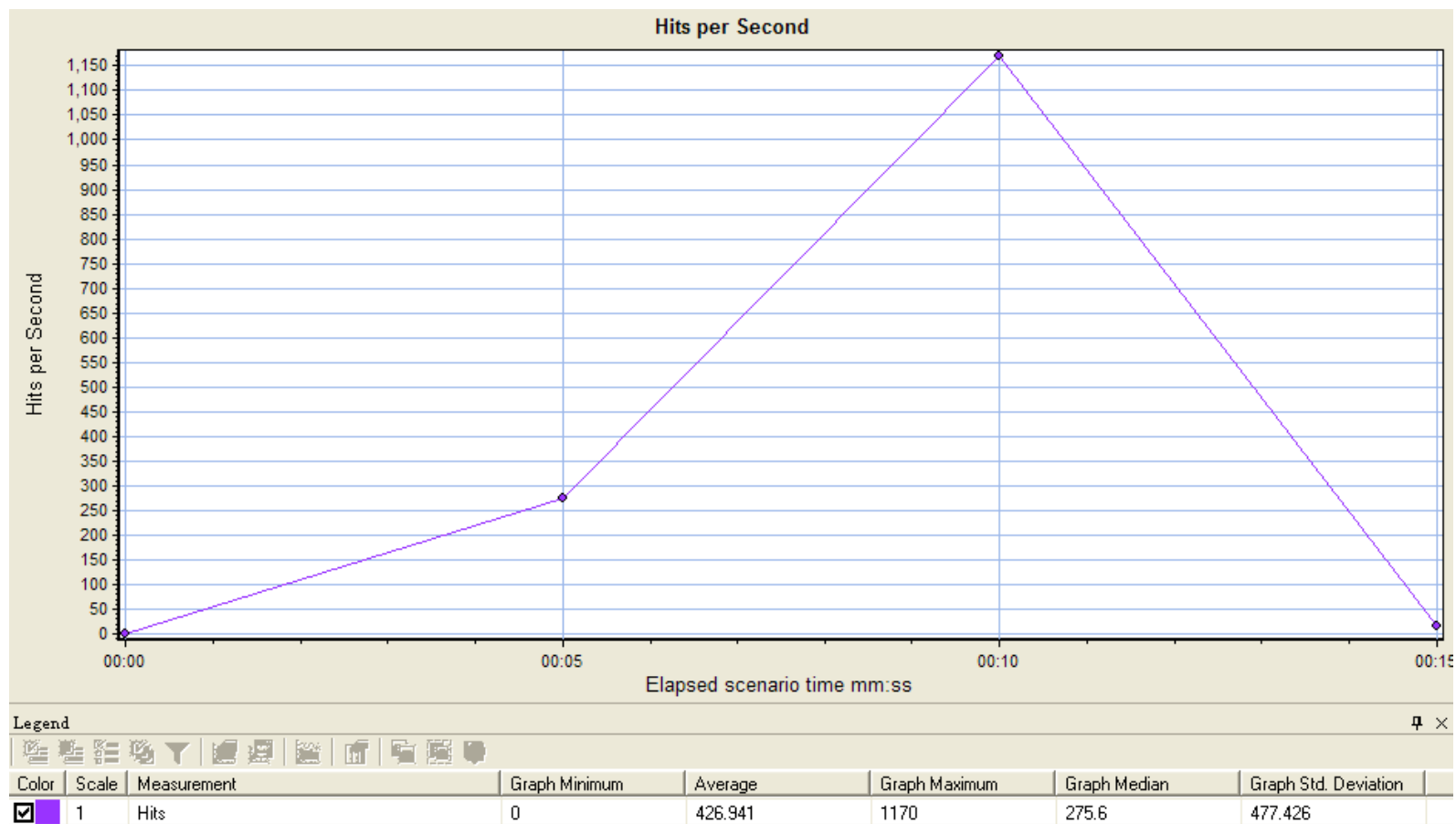






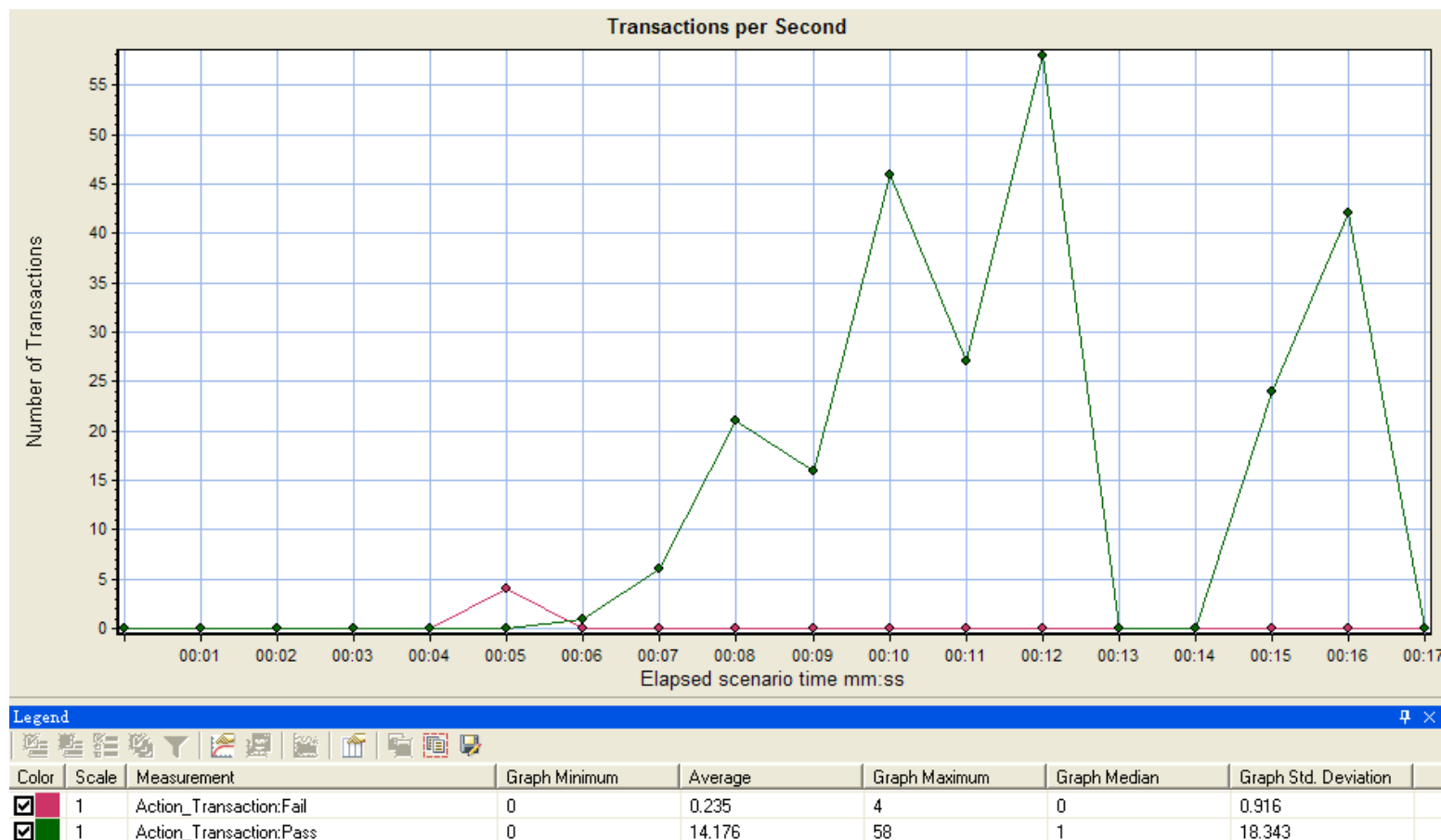
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### (3) 点击率



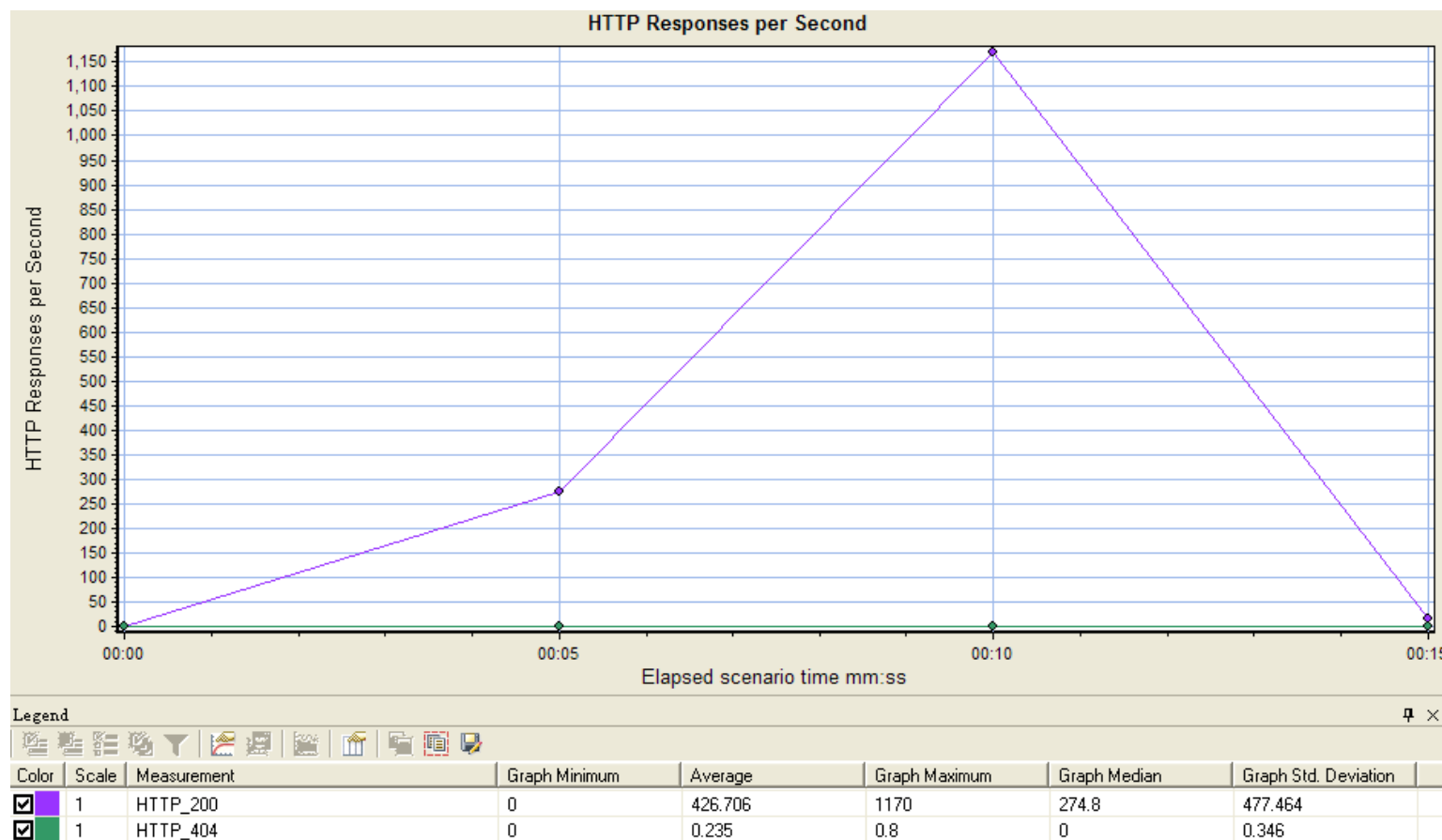


#### (4) TPS



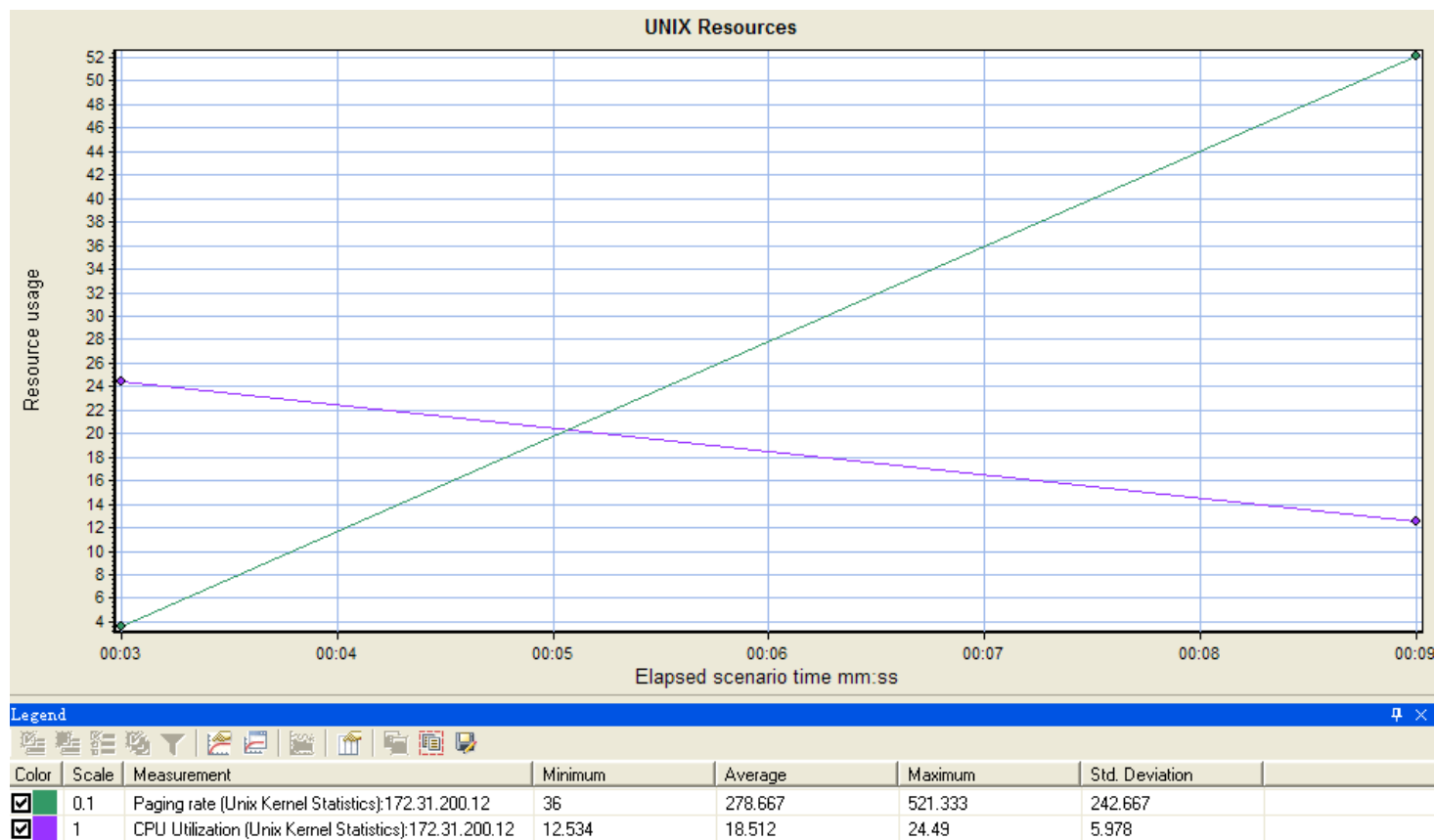


## (5)RPS





## (6)UNIX 系统资源





## (7 列表

并发 数	事物响应时间(s)			吞吐量 (Bytes)	点击率 ( Hits per Seconds )			TPS (Transactions per Seconds)			RPS (Responses per Seconds)			Unix 系统资源	
	最小	90% 事务	最大		最小	平均	最大	最小	平均	最大	最小	平均	最大	CPU Utilization (%) (min->aver->max)	Paging Rate (0.1) (min->aver->max)
220	1.146	10.691	11.389	52,826,470	0	393.529	738	0	13.118	55	0	393.529	738	13.331, 17.059, 20.786	37.333, 262, 486.667
240	0.894	10.726	11.37	57,180,346	0	426.941	1170	0	14.176	58	0	426.706	1170	12.534, 18.512, 24.49	36, 278.667, 521.333

## 小结

在运行 240 虚拟用户进行访问时，LR 上报错是 http Stutas-code=404；服务器端日志错误为：  
2013/01/15 11:56:27 [error] 14665#0: \*1910 connect() to unix:ar/run/phpfpm.sock failed (11: Resour



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ce temporarily unavailable) while connecting to upstream, client: 172.31.143.66, server: , request : "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

2013/01/15 11:56:27 [error] 14665#0: \*1910 open() "/usrinxml/50x.html" failed (2: No such file or directory), client: 172.31.143.66, server: , request: "GET / HTTP/1.1", upstream: "fastcgi://unix:ar/run/phpfpm.sock:", host: "172.31.200.12"

结合以上, 此时 CPU 最高使用 24.49%, Paging Rate 最高为  $521.333 * 0.1 = 52.1$ , 吞吐量最大为: 57,180,346Bytes 且随着虚拟数量增大成上升趋势, 否定网络堵塞等情况, 均未达到服务器端极限, 由此可以确定在当前服务器端配置下, 专题详情页该单台所能承受的并发最好情况为 220.