



**November 2, 2010**

495 Round Rock West • Round Rock, TX 78681 • 512-246-7345 • Fax 512-246-7361  
www.perseuslabs.com • info@perseuslabs.com • 866-737-7387 (toll free)

## Project Final Report: Catalyst Stability Testing

### **Executive Summary**

Perseus Labs tested driver stability on the Nvidia GTS 250, GTX 460, and GTX 480. We also tested driver stability on the AMD Radeon HD 5670, 5830, and 5870 cards.

### **Test Plan Summary**

Testing was conducted at Perseus Labs in Round Rock, Texas. Testing began on 10/11/2010 and was fully complete on 10/23/2010. The only failure observed was in one of the Nvidia configurations. No abnormal operation was observed in any of the AMD test configurations.

The test documentation provided by AMD was used as the guide for test execution and was closely followed. The process consisted of clean OS installs, installation of supporting test software, OS configuration, driver installation, and test execution. The bulk of testing revolved around the crash.exe utility run in automated mode. The tests were automated via a TCL script that ran at boot (Tool Command Language) for a sequence of 12 iterations per configuration and allowed to run 24 hours each. Two configurations were not run due to time constraints and driver incompatibility issues on the Nvidia side. Due to this incompatibility, one additional configuration was created and substituted: the GTX 480 + 197.75 configuration.

### **Final Project Status Catalyst Stability Testing**

Test Plan ID	Total Passed	Total Failed	Blocked	Total Attempted	Total Test Cases
CST1	15	1	2	16	18

### **Results Summary**

The test logs were collected at the end of each 24-hour pass and then imported into an excel spreadsheet for tracking. A compressed archive of the complete test logs was uploaded to <ftp.ati.com>, and the data spreadsheet emailed to Jason Niu for review.

## Hardware and Software tested

### Motherboard, Processor, and Memory:

MA785GPMT-UD2H Motherboard + Phenom II x4 945/955 + 4GB Crucial Ballistix @ 1600MHz CL7

### Storage:

Seagate Barracuda 500GB SATA2 – 7200 RPM

### OS:

Windows 7 Ultimate Edition x64

### GPUS:

Nvidia Geforce GTS 250 + 197.45, 258.96

Nvidia Geforce GTX 460 + 258.96

Nvidia Geforce GTX 480 + 197.75, 257.21, 258.96

AMD Radeon HD 5670 + Catalyst 10.7, Catalyst 10.8, Catalyst 10.9

AMD Radeon HD 5830 + Catalyst 10.7, Catalyst 10.8, Catalyst 10.9

AMD Radeon HD 5870 + Catalyst 10.7, Catalyst 10.8, Catalyst 10.9

## Detailed Results Table

### Nvidia

VideoCard	Driver	Pass	Runtime	TargetRuntime	Score	Grade
GTS 250	258.96	1	7200	7200	100%	A
GTS 250	258.96	2	7200	7200	100%	A
GTS 250	258.96	3	2554	7200	35%	F
GTS 250	258.96	4	7200	7200	100%	A
GTS 250	258.96	5	7200	7200	100%	A
GTS 250	258.96	6	7200	7200	100%	A
GTS 250	258.96	7	1988	7200	28%	F
GTS 250	258.96	8	7200	7200	100%	A
GTS 250	258.96	9	7200	7200	100%	A
GTS 250	258.96	10	7200	7200	100%	A
GTS 250	258.96	11	7200	7200	100%	A
GTS 250	258.96	12	7200	7200	100%	A
GTX 460	258.96	1	7200	7200	100%	A
GTX 460	258.96	2	7200	7200	100%	A
GTX 460	258.96	3	7200	7200	100%	A
GTX 460	258.96	4	7200	7200	100%	A
GTX 460	258.96	5	7200	7200	100%	A
GTX 460	258.96	6	7200	7200	100%	A
GTX 460	258.96	7	7200	7200	100%	A
GTX 460	258.96	8	7200	7200	100%	A
GTX 460	258.96	9	7200	7200	100%	A
GTX 460	258.96	10	7200	7200	100%	A
GTX 460	258.96	11	7200	7200	100%	A
GTX 460	258.96	12	7200	7200	100%	A
GTX 480	258.96	1	7200	7200	100%	A
GTX 480	258.96	2	7200	7200	100%	A
GTX 480	258.96	3	7200	7200	100%	A
GTX 480	258.96	4	7200	7200	100%	A

<b>GTX 480</b>	258.96	5	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	6	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	7	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	8	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	9	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	10	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	11	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	258.96	12	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	1	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	2	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	3	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	4	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	5	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	6	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	7	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	8	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	9	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	10	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	11	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	257.21	12	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	1	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	2	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	3	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	4	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	5	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	6	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	7	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	8	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	9	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	10	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	11	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	257.21	12	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	1	BSOD	BSOD	BSOD	<b>BSOD</b>
<b>GTS 250</b>	197.45	2	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	3	3318	7200	Invalid	-
<b>GTS 250</b>	197.45	4	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	5	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	6	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	7	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	8	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	9	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	10	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	11	7200	7200	100%	<b>A</b>
<b>GTS 250</b>	197.45	12	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	1	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	2	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	3	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	4	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	5	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	6	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	7	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	8	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	9	7200	7200	100%	<b>A</b>

<b>GTX 480</b>	197.75	10	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	11	7200	7200	100%	<b>A</b>
<b>GTX 480</b>	197.75	12	7200	7200	100%	<b>A</b>

**AMD**

<b>VideoCard</b>	<b>Driver</b>	<b>Pass</b>	<b>Runtime</b>	<b>TargetRuntime</b>	<b>Score</b>	<b>Grade</b>
<b>5670</b>	Catalyst 10.7	1	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	2	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	3	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	4	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	5	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	6	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	7	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	8	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	9	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	10	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	11	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.7	12	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	1	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	2	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	3	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	4	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	5	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	6	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	7	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	8	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	9	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	10	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	11	7200	7200	100%	<b>A</b>
<b>5830</b>	Catalyst 10.7	12	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	1	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	2	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	3	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	4	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	5	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	6	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	7	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	8	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	9	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	10	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	11	7200	7200	100%	<b>A</b>
<b>5870</b>	Catalyst 10.7	12	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	1	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	2	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	3	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	4	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	5	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	6	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	7	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	8	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	9	7200	7200	100%	<b>A</b>
<b>5670</b>	Catalyst 10.8	10	7200	7200	100%	<b>A</b>

5670	Catalyst 10.8	11	7200	7200	100%	A
5670	Catalyst 10.8	12	7200	7200	100%	A
5830	Catalyst 10.8	1	7200	7200	100%	A
5830	Catalyst 10.8	2	7200	7200	100%	A
5830	Catalyst 10.8	3	7200	7200	100%	A
5830	Catalyst 10.8	4	7200	7200	100%	A
5830	Catalyst 10.8	5	7200	7200	100%	A
5830	Catalyst 10.8	6	7200	7200	100%	A
5830	Catalyst 10.8	7	7200	7200	100%	A
5830	Catalyst 10.8	8	7200	7200	100%	A
5830	Catalyst 10.8	9	7200	7200	100%	A
5830	Catalyst 10.8	10	7200	7200	100%	A
5830	Catalyst 10.8	11	7200	7200	100%	A
5830	Catalyst 10.8	12	7200	7200	100%	A
5870	Catalyst 10.8	1	7200	7200	100%	A
5870	Catalyst 10.8	2	7200	7200	100%	A
5870	Catalyst 10.8	3	7200	7200	100%	A
5870	Catalyst 10.8	4	7200	7200	100%	A
5870	Catalyst 10.8	5	7200	7200	100%	A
5870	Catalyst 10.8	6	7200	7200	100%	A
5870	Catalyst 10.8	7	7200	7200	100%	A
5870	Catalyst 10.8	8	7200	7200	100%	A
5870	Catalyst 10.8	9	7200	7200	100%	A
5870	Catalyst 10.8	10	7200	7200	100%	A
5870	Catalyst 10.8	11	7200	7200	100%	A
5870	Catalyst 10.8	12	7200	7200	100%	A
5670	Catalyst 10.9	1	7200	7200	100%	A
5670	Catalyst 10.9	2	7200	7200	100%	A
5670	Catalyst 10.9	3	7200	7200	100%	A
5670	Catalyst 10.9	4	7200	7200	100%	A
5670	Catalyst 10.9	5	7200	7200	100%	A
5670	Catalyst 10.9	6	7200	7200	100%	A
5670	Catalyst 10.9	7	7200	7200	100%	A
5670	Catalyst 10.9	8	7200	7200	100%	A
5670	Catalyst 10.9	9	7200	7200	100%	A
5670	Catalyst 10.9	10	7200	7200	100%	A
5670	Catalyst 10.9	11	7200	7200	100%	A
5670	Catalyst 10.9	12	7200	7200	100%	A
5830	Catalyst 10.9	1	7200	7200	100%	A
5830	Catalyst 10.9	2	7200	7200	100%	A
5830	Catalyst 10.9	3	7200	7200	100%	A
5830	Catalyst 10.9	4	7200	7200	100%	A
5830	Catalyst 10.9	5	7200	7200	100%	A
5830	Catalyst 10.9	6	7200	7200	100%	A
5830	Catalyst 10.9	7	7200	7200	100%	A
5830	Catalyst 10.9	8	7200	7200	100%	A
5830	Catalyst 10.9	9	7200	7200	100%	A
5830	Catalyst 10.9	10	7200	7200	100%	A
5830	Catalyst 10.9	11	7200	7200	100%	A
5830	Catalyst 10.9	12	7200	7200	100%	A
5870	Catalyst 10.9	1	7200	7200	100%	A
5870	Catalyst 10.9	2	7200	7200	100%	A
5870	Catalyst 10.9	3	7200	7200	100%	A

5870	Catalyst 10.9	4	7200	7200	100%	A
5870	Catalyst 10.9	5	7200	7200	100%	A
5870	Catalyst 10.9	6	7200	7200	100%	A
5870	Catalyst 10.9	7	7200	7200	100%	A
5870	Catalyst 10.9	8	7200	7200	100%	A
5870	Catalyst 10.9	9	7200	7200	100%	A
5870	Catalyst 10.9	10	7200	7200	100%	A
5870	Catalyst 10.9	11	7200	7200	100%	A
5870	Catalyst 10.9	12	7200	7200	100%	A

## Perseus Labs Document Approval

Your signature below indicates that you approve this document, Catalyst Stability Testing Final Report, for release to AMD.

  
 \_\_\_\_\_  
 Joseph Silva – Sr. QA Engineer

11/2/2010  
 Date

  
 \_\_\_\_\_  
 Curtis Rea – Operations Manager

11/2/2010  
 Date

Perseus Labs makes every attempt to ensure that information supplied is accurate, up to date and that the majority of the product flaws are revealed, but cannot guarantee the absolute accuracy of information or that no issues exist with the customer's product.

### Copyright Notice

The copyright of all material provided in this document is held by Perseus Technologies, Inc. or by the original creator of the material. Except as stated herein, none of the material may be copied, reproduced, distributed, republished, displayed, posted or transmitted in any form or by any means, including, but not limited to, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Perseus Technologies, Inc. or the copyright owner. Permission is *granted* to the person, persons, or entity in direct receipt of this document from Perseus Technologies, Inc. to copy, reproduce, distribute, republish, displayed, post or transmit in any form or otherwise use provided that all copyright and other proprietary notices contained in the materials are retained.