



R400 Performance Verification

December 11, 2002

ATI Corporate Presentation
Confidential

AMD1044 0188902

Performance Verification Goals

- ◆ Application Analysis
 - Extraction and analysis of benchmark application data
 - Analyze application data against R400 models
- ◆ Directed Tests
 - Fill rate tests
 - Complex images and shaders
 - Application specific algorithms
- ◆ Application Level Tests
 - Driver benchmark traces
 - Performance related support for hardware and driver groups



2

CONFIDENTIAL
6/14/2017

ATI Corporate Presentation
Confidential

AMD1044 0188903

Directed Tests

◆ Completed tests

- Approx 50% of the planned tests are complete (83 of 167); a drop over the past month since more planned tests were included in the count
- Includes basic fill rates for color, depth, texture, fog, different primitives, some cache stress tests, and selected fragment ops
- Many of the unwritten tests are in the “nice-to-have” category

◆ Analysis

- Run tests, compare against expected results, analyze
- Need performance counter support for analysis to start

◆ What's next

- Add to regression tests
- Need to add multi-sample support

3
CONFIDENTIAL
6/14/2017

ATI Corporate Presentation
Confidential

AMD1044 0188904

Directed Tests

Test	Planned	Written	% Written	Analyzed	% Analyzed
pv_triangle	28	21	75%	.5	0%
pv_texture	27	27	100%	0	0%
pv_texture_multi	12	4	33%	0	0%
pv_scissor	3	3	100%	0	0%
pv_fog	8	4	50%	0	0%
pv_line	8	4	50%	0	0%
pv_point	8	1	12%	0	0%
pv_rb	19	19	100%	0	0%
pv_tcache	12?	0	0%	0	0%
pv_hiz_sten	10?	0	0%	0	0%
pv_shader	12?	0	0%	0	0%
miscellaneous	20?	0	0%	0	0%
Total	167	83	50%	.5	0%



4

CONFIDENTIAL
6/14/2017

ATI Corporate Presentation
Confidential

AMD1044 0188905

R400 Capture & Playback Tools

◆ QS Capture Functionality

- Capture tool functionality is complete and checked in; should be being built as part of the R400 driver release
- A few issues exist (eg immed mode VB size) that need to be worked out still; QS/CMM group is currently in support mode
- Have successfully captured several dump files from the R400 D3D and OpenGL drivers; is currently being used to debug a problem that the driver folks reported ☺

◆ Parser Tools

- Have R400 PM4Trace functionality working; parsing captured R400 dump files
- Starting to build tools on top of the parser class library now



5

CONFIDENTIAL
6/14/2017

ATI Corporate Presentation
Confidential

AMD1044 0188906

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.