ATI TECHNOLOGIES INC.

**R400 Performance Verification**

June 14, 2017

# Performance Verification - Goals

- ❖ **Performance Verification**
  - ➢ **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

CONFIDENTIAL                                                    [DateTime]

June 14, 2017

# Performance Verification – Status

- ❖ **Directed Tests (PrimLib)**
  - ➢ R400 Performance Verification Test Plan spec
    - Approx 75% complete
  - ➢ Geometry class support in PrimLib
    - Approx 75% complete
  - ➢ Directed tests status
    - Approx 20% complete
    - Tests include pv_color_depth, pv_basic_texture, pv_depth_cache
    - Currently have about 20 individual test cases
    - Includes basic fill rates for color, depth, and some texture

CONFIDENTIAL [DateTime]

June 14, 2017

# Performance Verification – Status

## ❖ R400 Performance

➤ Some very, very preliminary results…

- Have run several simple fill rate tests on the simulator

- Working with the designers to determine the best way interpret the data

- Do not have optimal environment yet…

CONFIDENTIAL [DateTime]

June 14, 2017

**Performance Verification – Status**

❖ **R400 Capture and Playback Tools**

➤ **Complementary mechanism to PrimLib**

* Allow driver traces to be captured and simulated

* Used by diagnostics

* R400 cannot easily use emulator traces

➤ **Effort falls across multiple groups**

* Binary dump format spec written and reviewed (Toronto HW Perf Group)

* Capture design & impl (Toronto QS Group) just getting started

* Pkt reconstruction/playback tools starting shortly (Marlboro)

* Coordinating weekly meetings

CONFIDENTIAL

[DateTime]

June 14, 2017

# DOCKET ALARM

# 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.