



# EVL Sage / Rocks

---

PRAGMA 10





# Overview

[www.evl.uic.edu/cavern/sage](http://www.evl.uic.edu/cavern/sage)

## ◆ Remote Rendering

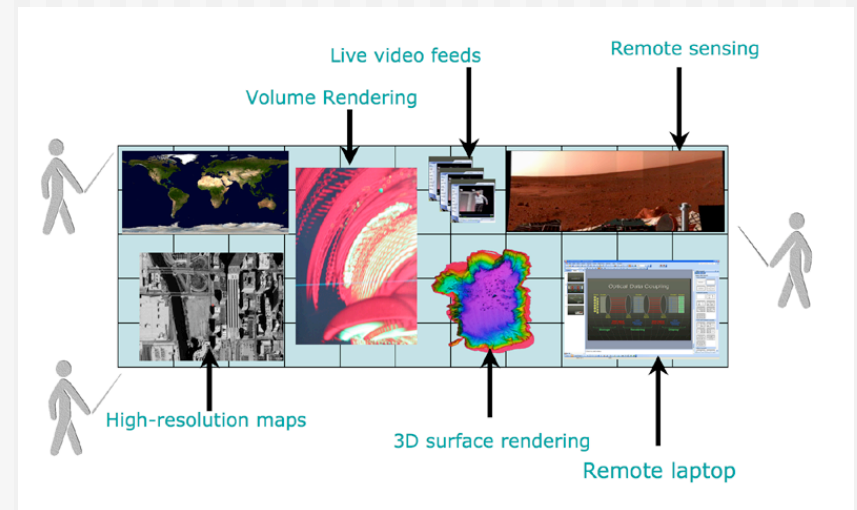
- Render Node
  - nVidia GPU renders
  - Master node CPU reads texture map
- Display Nodes
  - Master node CPU sends texture maps to display nodes
  - Image displayed on wall

## ◆ Pixel Pushing

- Can stream pixels over the network at fullspeed
  - Impossible with DMX or Chromium
  - Movies and Images

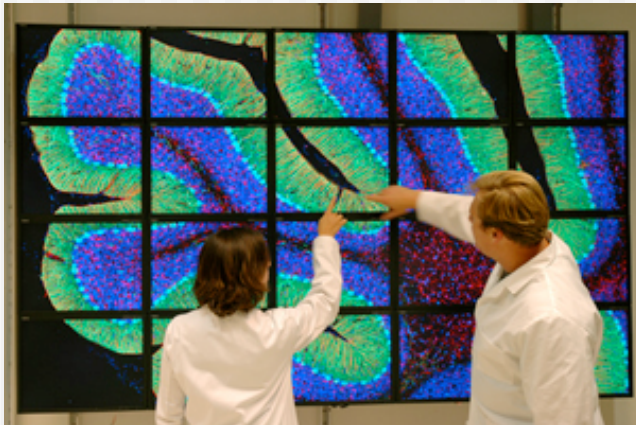
## ◆ Community Wall

- HD camera feeds (video conferencing)
- SVGA screen captures (plug in your laptop to the wall)





# Examples





# Beta Version Released (x86)

[www.rockclusters.org](http://www.rockclusters.org)

## Viz Roll: Users Guide



Copyright © 2005 UC Regents

[\(PDF version\)](#)

### Table of Contents

#### Preface

#### 1. Requirements

- 1.1. Rocks Version
- 1.2. Other Rolls

#### 2. Components

#### 3. Installing the Viz Roll


- 3.1. Adding the Roll
- 3.2. Video Card Configuration
- 3.3. Hardware Assembly

#### 4. Using the Viz Roll

- 4.1. Single Desktop (XDMX)
- 4.2. Accelerating OpenGL Applications (Chromium)

Next  
Preface

[Home](#) [Grid Monitor](#) [Downloads](#) [Documentation](#) [Support](#) [Papers](#) [Register Your Cluster](#)



## Rocks-A-Palooza II

### Singapore

### May 18-19 2006

Registration Opens [April 1, 2006](#)

March 6, 2006

### Viz/EVL Rolls for Rocks Beta 4.2 x86 Released

The Viz and EVL Rolls for Rocks Beta 4.2 (x86) are Released. This Beta release is an early snapshot of Rocks 4.2, with the new Visualization software support. The Viz Roll had been updated with new versions of DMX, and SDL, and the Chromium bugs have been fixed. The new EVL Roll includes the [SAGE](#) software from the [Electronic Visualization Laboratory](#) at UIC. SAGE allows for full frame rate streaming of pixels (movies, or images) on a tile display wall. DMX and SAGE complement each other nicely and allow researchers to build pixel streaming walls (SAGE), and large X11 desktops (DMX).

The Meta Roll can be downloaded from our ftp site [here](#). To build a Viz cluster you must boot with this Roll and use all 4 OS CDs from our [downloads page](#). This beta has not been tested with any other Rolls, and we recommend only using this with the 4 OS CDs, and no other Rolls.

Documentation will be available shortly. For those using CVS the tree has been tagged with ROCKS\_4.2.BETA\_1 for this release.

### Recent News

- NBCR Releases MEME Roll for Rocks 4.1
- University of Tromsø Releases Updated PBS Roll for Rocks 4.1
- Scalable Informatics Releases ScalableInformatics Roll for Rocks 4.1
- NBCR Releases APBS Roll for Rocks 4.1
- Myricom Updates Myrinet Roll for Rocks 4.1
- Scalable Systems Releases Intel Roll for Rocks 4.1
- Voltaire Releases Infiniband Roll for Rocks 4.1
- Kasetsart University Releases SCE Roll for Rocks 4.1

### Archives

- March 2006
- February 2006
- January 2006
- December 2005
- November 2005
- October 2005

[RSS](#)



# Viz (Pre Sage)

---



© 2005 UC Regents