Test We Must !

Defective Software

cost Money

a lot of Money...!

Inadequate

Software Testing Infrastructure

cost the US

\$60 Billion Dollars a year.

http://www.nist.gov/director/prog-ofc/report02-3.pdf

That is

0.2% of GDP

http://www.nist.gov/director/prog-ofc/report02-3.pdf

Twice the

NIH Annual Budget

Mostly paid

in the work-around procedures

that users adopt

http://www.nist.gov/director/prog-ofc/report02-3.pdf

Skipping Testing is an **unprofessional** way

of writing software

Testing differentiates

"Smart" Developers

From

Professional Developers

"Smart" Developers Write **A LOT** of code

Very quickly

Most of Which

have to be thrown away !



Due to Incorrect Implementation

Lack of Readability

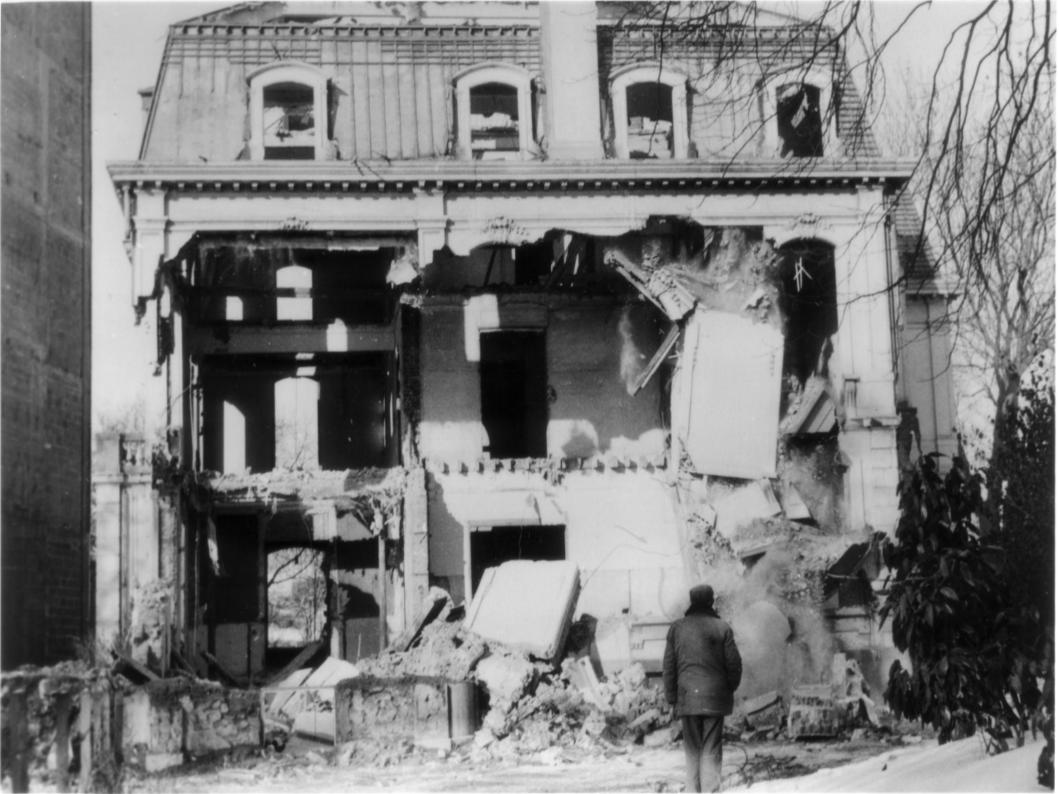
Lack of Maintainability

Poor Documentation



Source Code that is **NOT Tested**

IS Broken !



Broken Code

disrupts the work

of the Community



Users will waste

Time Money and Effort

Trying to use the Software



Just to Discover That it is indeed

Broken !



At which point

The code will have

to be thrown away

and rewritten



Or "somebody"

will have to debug it

and fix it

Debugging code is

about FOUR times

more expensive

than Writing new code

Most of the Debugging Time

gets used in "understanding"

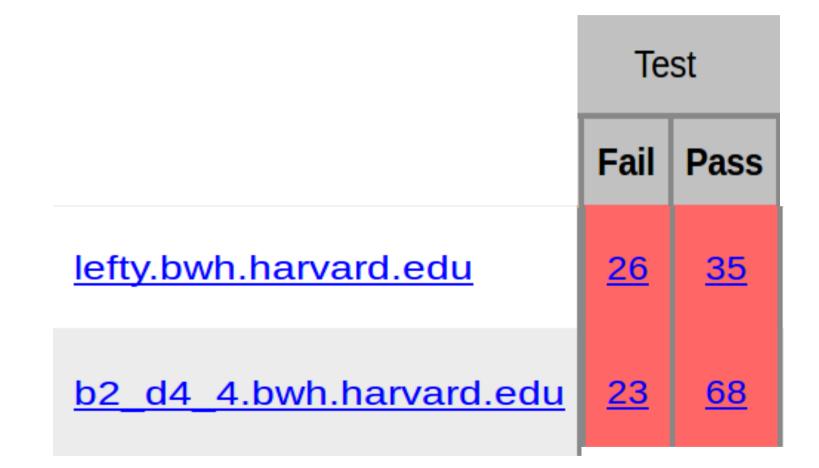
what the software

was supposed to do...

Slicer Dashboard

3DSlicer		4 4 4		S	SLIC	ER Da	3	oard		B4	2	5	0
DAGUDGADD				011					FOT	<u>0</u>	4	<u>87</u>	14
DASHBOARD	CALENDAR F	PREVIC	<u>US</u>		RRENT	NE	EXT	PROJ	ECT				
						- [239.1	84	17	217	111.2
<u>32 files changed by</u>	y 6 authors as of	Friday,	Dec	cembe	r 11 20	09 22:0)0:00 E	EST	20011				
-		Up	date		Contigure			Build			Test		
Site	Build Name	Files	Min	Error	Warn	Min	Error	Warn	Min	NotRun	Fail	Pass	Min
tar-valon.kitwarein.com	Darwin-g++ 🗟 🍳 🖻	Q	0	Q	Q	0.1	Q	<u>50</u>	148.5	Q	4	<u>87</u>	6.9
JOE	<u>Win32-vs9</u>	<u>0</u>	0.1	<u>0</u>	<u>0</u>	0.8	<u>3</u> +3	<u>50</u>	74	<u>0</u>	<u>3</u>	<u>88</u>	26.5
Totals	2 Builds	0	0.1	0	0	0.9	3	100	222.5	0	7	175	33.4
No Continuous Builds													
Experimental													
Site	Build Name		Update		Configure		Build			Test			
less	Linux-g++ 🗟 Q 🗇	Files	Min	Error	Warn	Min	Error	Warn	Min	NotRun	Fail	Pass	Min
<u>kope</u>		<u>0</u>	0	<u>0</u>	0	-	<u>0</u>	<u>36</u>	58.4	<u>84</u> +84	2+1	<u>5</u> .85	0
macondo.kitware	Darwin-g++	<u>0</u> 0	0	<u>0</u> 0	<u>0</u> 0	0.3	<u>0</u> 0	<u>0</u> 0	0.1	<u>0</u> 0	2+2	<u>89</u> +89	7.2 157
macondo.kitware	Linux-g++	<u>v</u>	0	<u>v</u>	<u>v</u>	0.3	0	<u>0</u>	0.2	<u>v</u>	23	<u>68</u>	157
WENDYPLESNIF83B	Win32-vs9	<u>o</u>	0	<u>v</u>	<u>0</u>	0.2	<u>v</u>	1	0.2	<u>5</u>	<u>86</u>	<u>0</u>	1.1
thurmite.local	Darwin-g++	<u>o</u>	0	<u>v</u>	<u>0</u>	0.2	<u>0</u>	<u>0</u>	91.9	<u>0</u>	<u>24</u>	<u>67</u>	67.4
macondo.kitware	Linux-g++ 🗟 Q	<u>o</u>	0	<u>v</u>	<u>v</u>	0.2	<u>v</u>	<u>24</u> .12	14.1	<u>v</u> 0	<u>2+</u> 2	<u>89</u> .2	8.1
ahnry-laptop		<u>o</u>	0	<u>v</u>	<u>0</u>	0	<u>v</u>	<u>50</u>	95	<u> </u>	<u>2</u> +2	5	0.1
lefty.bwh.harvard.edu	Darwin-g++	<u>o</u>	0	<u>v</u>	<u>o</u>	0.1	<u>v</u>	2	59.9	<u>0</u>	<u>26</u>	<u>35</u>	9.8
b2_d4_4.bwh.harvard.edu	Linux-g++ 🗟 Q 🖆	<u>o</u>	0	<u>v</u>	<u>0</u>	0.2	<u>v</u>	<u>50</u>	293.2	<u>v</u>	<u>23</u>	<u>68</u>	5.5
hjbuildbox.local	Darwin-g++	<u>o</u>	0	<u>v</u>	<u>v</u>	0.1	<u>v</u>	<u>50</u> +2	50	<u>v</u> 0	<u>4</u> +2	<u>87</u> .2	7.1
Totals	11 Builds	0	0		0	1.1	0	213	799.5	173	194	513	263.2







	Build		
	Error	Warn	Min
<u>lefty.bwh.harvard.edu</u>	<u>0</u>	<u>2</u>	59.9
<u>b2_d4_4.bwh.harvard.edu</u>	<u>0</u>	<u>50</u>	293.2

WARNING BEWARE OF POISONOUS SNAKES

Coverage				
Site	Percentage			
thurmite.kitware	<u>6.35%</u>			
macondo.kitware	<u>13.41%</u>			



Dynamic Analysis	
Site	Defect Count
macondo.kitware	<u>78626</u>
macondo.kitware	<u>51645</u>



Site Name: macondo.kitware Build Name: Linux-g++4.4.1-Qt-Debug Build Date: 2009-12-17 07:41:28

DiffusionEditorGlyphsTracts Failed

profiting:/home/ibanez/src/Stiter3-build/Libs/MRML/CMakeFiles/MRML
profiling:/home/ibanez/src/Slicer3-build/Libs/MRML/CMakeFiles/MRML
profiling:/home/ibanez/src/Slicer3-build/Libs/MRML/CMakeFiles/MRML
vtkDebugLeaks has detected LEAKS!
Class "vtkCollection" has 2 instances still around.
Class "vtkObserverManager" has 3 instances still around.
Class "vtkMRMLSelectionNode" has 1 instance still around.
Class "vtkCommand or subclass" has 8 instances still around.
Class "vtkSlicerApplicationLogic" has 1 instance still around.

child process exited abnormally



but...

It doesn't have

to end this way

Testing CAN be Done !



Together

We Can Fix It !



Yes !

We Can !

First:

Fix Existing

Failing Tests !

Nightly Changes as of 2009-12-30T22:00:00 EST

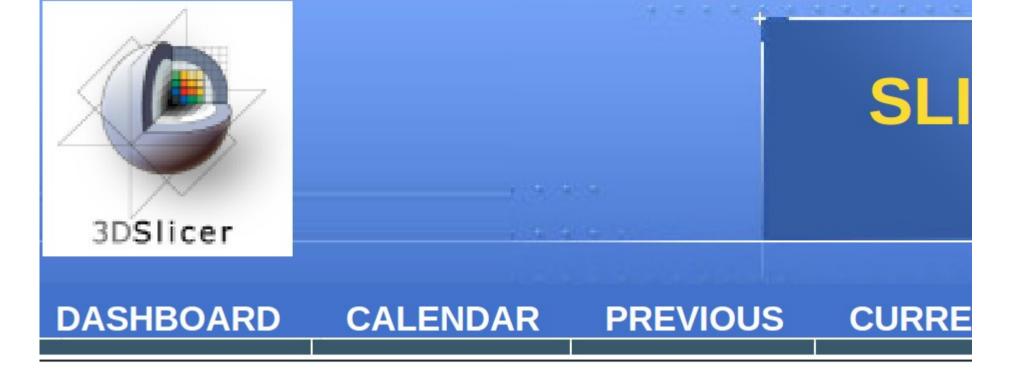
Applications/CLI/RegisterImagesModule/MultiResApplicat <u>CMakeLists.txt Revision: 11445</u> by casey.goodlett COMP: Fix problems compiling and running tests on other pla LAUNCH_EXE for tests so all libraries can be found 2) Use \${CMA Create a Win32Header file for classes that are linked in multiple lib

🖻 🗖 Base/GUI

vtkSlicerMRMLTreeWidget.cxx Revision: 11459 by naucoin BUG: fixing a memory leak

Second:

Add Unit Tests



71 files changed by 6 authors as of Tuesday, December 29



Divide

and

Conquer !



Rehabilitate

Key

Directories

Slicer3/Libs/MRML

Slicer3/Base/

Slicer3/Base/QT*

Compute

Coverage

Locally

cd Slicer3-build make -j4 Icov -- directory . -- zerocounters ctest -R \$1 lcov --directory . --capture --output-file app.info genhtml app.info firefox ./index.html

Testing Resources

http://www.slicer.org/slicerWiki/index.php/Slicer3:Testing

http://www.na-mic.org/Wiki/index.php/NA-MIC-kit-curriculum

make Experimental

ctest -D Experimental

ctest -D Nightly

ctest -R DiffusionTensor -V

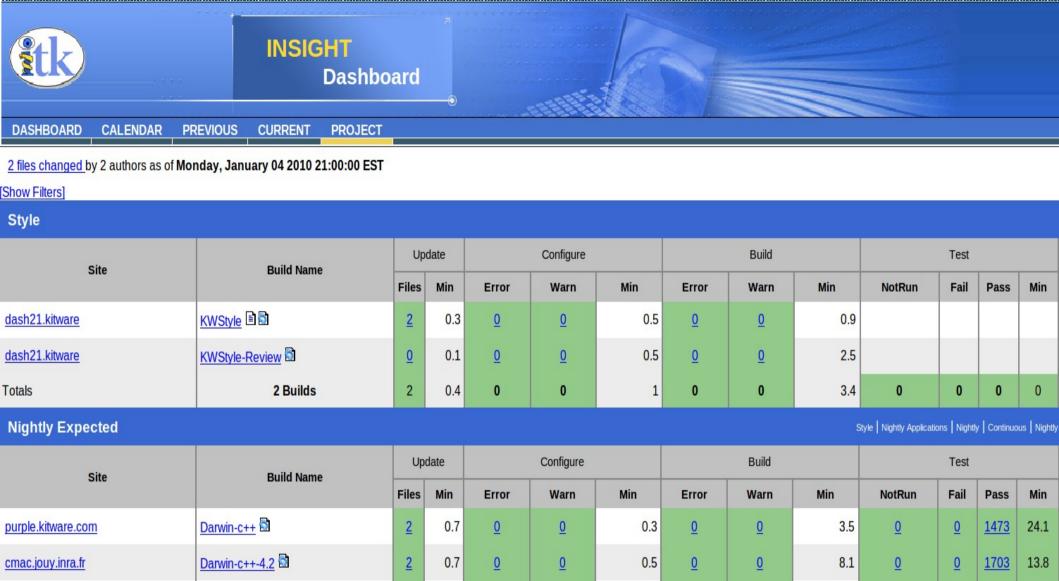
ctest -R DiffusionTensor -VV

cd Slicer3-build ctest -I 5,10,2

How Far

can

We Get ?



		Files	MIN	Error	warn	MIN	Error	warn	MIN	NotRun	Fair	Pass	MIN
purple.kitware.com	Darwin-c++	<u>2</u>	0.7	<u>0</u>	<u>0</u>	0.3	<u>0</u>	<u>0</u>	3.5	<u>0</u>	<u>0</u>	<u>1473</u>	24.1
<u>cmac.jouy.inra.fr</u>	Darwin-c++-4.2	<u>2</u>	0.7	<u>0</u>	<u>0</u>	<mark>0.5</mark>	<u>0</u>	<u>0</u>	8.1	<u>0</u>	<u>0</u>	<u>1703</u>	13.8
thurmite.kitware	Darwin-g++4.0.1	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0.2	<u>0</u>	<u>0</u>	194.3	<u>0</u>	<u>0</u>	<u>1744</u>	16.2
midworld.kitware	DarwinG5-g++ 🖹 🖺	<u>1</u>	0	<u>0</u>	<u>0</u>	0.9	<u>0</u>	<u>0</u>	360.7	<u>0</u>	<u>0</u>	<u>1689</u>	36.1
kitty.hooperlab	<u>Fedora-11-x86 64</u>	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	18.4	<u>0</u>	<u>0</u>	<u>1693</u>	8.5
<u>bambi.hooperlab</u>	<u>Fedora-11-x86_64</u>	2	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	18.5	<u>0</u>	<u>0</u>	<u>1693</u>	8.9
murron.hobbs-hancock	Fedora-12-x86 64 🖹 🗟	<u>2</u>	0.4	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	43.4	<u>0</u>	<u>0</u>	<u>1689</u>	8
zion.kitware	Linux-g++-3.4	<u>2</u>	0	<u>0</u>	<u>0</u>	<mark>0.3</mark>	<u>0</u>	<u>0</u>	118	<u>0</u>	<u>0</u>	<u>1737</u>	313.2

purple.kitware.com	Darwin-c++	<u>2</u>	0.7	<u>0</u>	<u>0</u>	0.3	<u>0</u>	<u>0</u>	3.5	<u>0</u>	<u>0</u>	<u>1473</u>	24.1
<u>cmac.jouy.inra.fr</u>	Darwin-c++-4.2	<u>2</u>	0.7	<u>0</u>	<u>0</u>	0.5	<u>0</u>	<u>0</u>	8.1	<u>0</u>	<u>0</u>	<u>1703</u>	13.8
thurmite.kitware	Darwin-g++4.0.1	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0.2	<u>0</u>	<u>0</u>	194.3	<u>0</u>	<u>0</u>	<u>1744</u>	16.2
midworld.kitware	DarwinG5-g++ 🗈 🗟	<u>1</u>	0	<u>0</u>	<u>0</u>	0.9	<u>0</u>	<u>0</u>	360.7	<u>0</u>	<u>0</u>	<u>1689</u>	36.1
kitty.hooperlab	<u>Fedora-11-x86 64</u>	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	18.4	<u>0</u>	<u>0</u>	<u>1693</u>	8.5
<u>bambi.hooperlab</u>	<u>Fedora-11-x86 64</u>	2	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	18.5	<u>0</u>	<u>0</u>	<u>1693</u>	8.9
murron.hobbs-hancock	<u>Fedora-12-x86 64</u>	<u>2</u>	0.4	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	43.4	<u>0</u>	<u>0</u>	<u>1689</u>	8
<u>zion.kitware</u>	Linux-g++-3.4 🗈 🗟	<u>2</u>	0	<u>0</u>	<u>0</u>	0.3	<u>0</u>	<u>0</u>	118	<u>0</u>	<u>0</u>	<u>1737</u>	313.2
<u>camelot.kitware</u>	Linux-g++-4.1-Debug 🗈 🗟	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0.2	<u>0</u>	<u>0</u>	125	<u>0</u>	<u>0</u>	<u>1740</u>	114.9
<u>sanchome.megason-lab.hms</u>	Linux-g++-4.4.2-x86_64-dbg-shared	<u>0</u>	0.4	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	46.1	<u>0</u>	<u>0</u>	<u>1685</u>	44.2
sanchome.megason-lab.hms	Linux-g++-4.4.2-x86 64-dbg-static	<u>2</u>	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	49.3	<u>0</u>	<u>0</u>	<u>1683</u>	43.9
sanchome.megason-lab.hms	Linux-g++-4.4.2-x86 64-rel-shared	<u>0</u>	0.4	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	69.5	<u>0</u>	<u>0</u>	<u>1685</u>	11.1
sanchome.megason-lab.hms	Linux-g++-4.4.2-x86 64-rel-static	<u>0</u>	0.3	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	70.2	<u>0</u>	<u>0</u>	<u>1683</u>	10.9
<u>BillsBasement</u>	Linux-gcc4.3.0-GLIBCXX_DEBUG	2	1.3	<u>0</u>	<u>0</u>	2	<u>0</u>	<u>0</u>	23.6	<u>0</u>	<u>0</u>	<u>1738</u>	365.9
boa.invivonmr.uu.nl	Linux-x86 64-g++-4.1.2	<u>2</u>	1.4	<u>0</u>	<u>0</u>	0.6	<u>0</u>	<u>0</u>	9.7	<u>0</u>	<u>0</u>	<u>1684</u>	8.8
RogueResearch5	Mac10.5-InsightBS-dbg	<u>0</u>	0.3	<u>0</u>	<u>0</u>	1.4	<u>0</u>	<u>0</u>	51.1	<u>0</u>	<u>0</u>	<u>1510</u>	39.9
RogueResearch6	Mac10.6-Insight-Ilvm-dbg-i386 🗈 🗟	<u>2</u>	0.6	<u>0</u>	<u>0</u>	1	<u>0</u>	<u>0</u>	35.5	<u>0</u>	<u>0</u>	<u>1151</u>	25.6

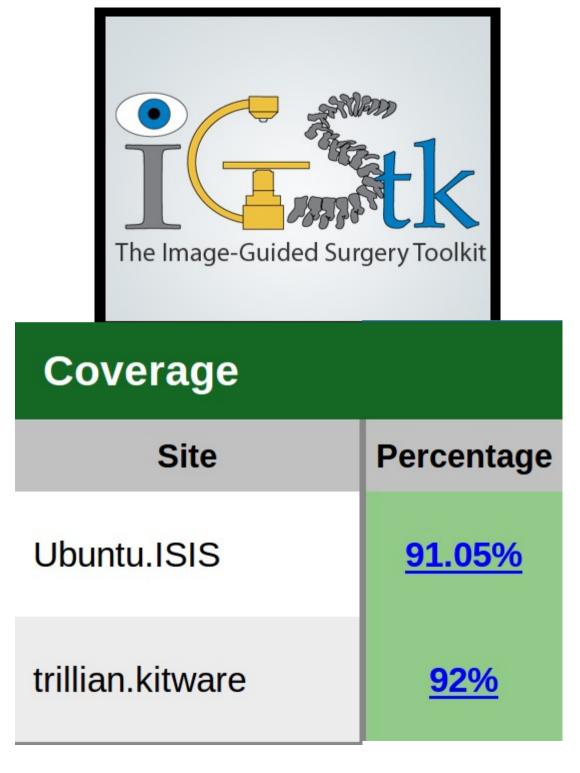


Coverage	
Site	Percentage
zion.kitware	<u>82.94%</u>
mtvernon.jhu	<u>97.22%</u>



Dynamic Analysis	
Site	Defect Count
brian.jouy.inra.fr	<u>34</u>
BigFish.megason-lab.hms	<u>94</u>

Test										
NotRun	n Fail Pass Min									
<u>0</u>	<u>0</u>	<u>1473</u>	24.1							
<u>0</u>	<u>0</u>	<u>1703</u>	13.8							



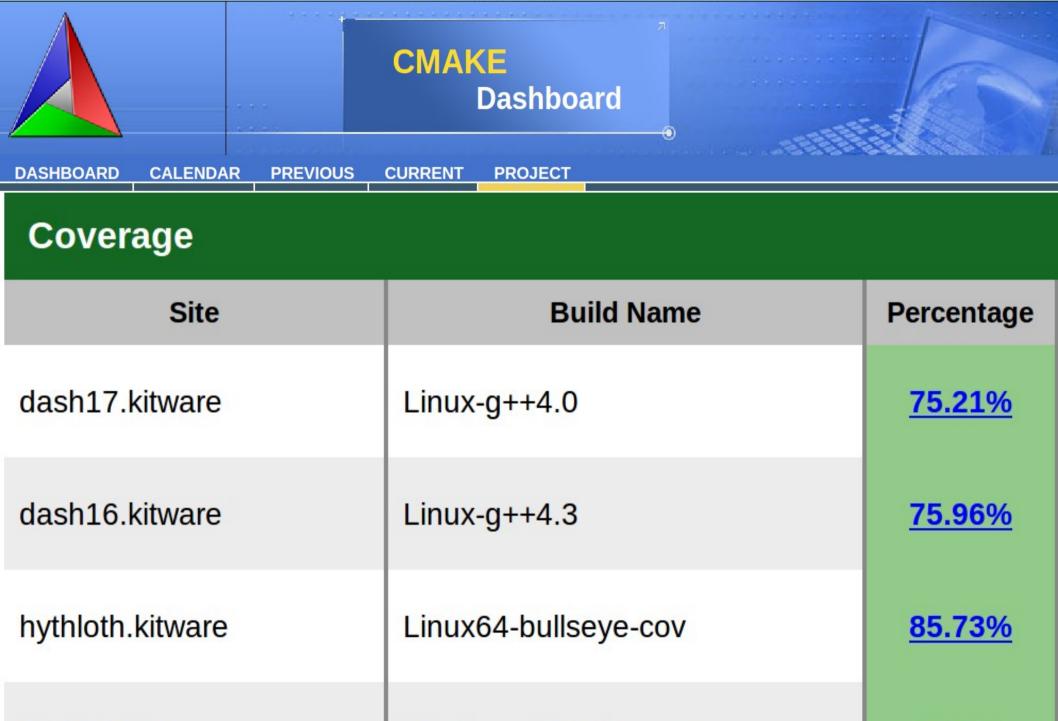
			CMA	KE Dash	boar	d									
DASHBOARD	CALENDAR	PREVIOUS	CURRENT	PROJE	ст		and a de Stagers				ZARGU AN				
Site		Du	uild Name		Update		Configure			Build			Test		
510	:	Bu	ind Name	File	es Min	Error	Warn	Min	Error	Warn	Min	NotRun	Fail	Pass	
v20n17.pbm.ihost	.com	AIX53-xIC	3	8	1.6	<u>0</u>	<u>0</u>	6.6	<u>0</u>	<u>0</u>	4.9	<u>0</u>	<u>0</u>	<u>159</u>	

Min

v20n17.pbm.ihost.com	AIX53-xIC	<u>85</u>	1.6	<u>0</u>	<u>0</u>	<mark>6.6</mark>	<u>0</u>	<u>0</u>	4.9	<u>0</u>	<u>0</u>	<u>159</u>	31.2
dash22	CVS-Win32-x86-bcc32	<u>4</u>	0.7	<u>0</u>	<u>0</u>	1	<u>0</u>	<u>0</u>	2.3	<u>0</u>	<u>0</u>	<u>156</u>	8.7
krondor.kitware	Darwin-c++	<u>4</u>	0.5	<u>0</u>	<u>0</u>	0.1	<u>0</u>	<u>0</u>	27.1	<u>0</u>	<u>0</u>	<u>159</u>	47.6
dashmacmini3.kitware	Darwin-Leopard-Xcode21-univ	<u>0</u>	0.2	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	10.4	<u>0</u>	<u>0</u>	<u>151</u>	20.7
dashmacmini3.kitware	Darwin-LeopardIntel-g++	<u>4</u>	0.5	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	2.2	<u>0</u>	<u>0</u>	<u>161</u>	14.5
dashmacmini3.kitware	Darwin-LeopardIntel-Universal	<u>0</u>	0.1	<u>0</u>	Q	0	<u>0</u>	<u>0</u>	4.2	<u>0</u>	<u>0</u>	<u>161</u>	14.9
dashmacmini1.kitware	Darwin-Tiger-Xcode21	<u>4</u>	0.7	<u>0</u>	<u>0</u>	0.1	<u>0</u>	<u>0</u>	19.3	<u>0</u>	<u>0</u>	<u>154</u>	39.8
dashmacmini2.kitware	Darwin-Tiger-Xcode21-univ	<u>0</u>	0.5	<u>0</u>	<u>0</u>	29.2	<u>0</u>	<u>0</u>	21	<u>0</u>	<u>0</u>	<u>159</u>	33.7
midworld.kitware	<u>DarwinG5-g++</u> ■	<u>4</u>	0.3	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	6.8	<u>0</u>	<u>0</u>	<u>159</u>	33.6
midworld.kitware	DarwinG5-XCode15	<u>0</u>	0.2	<u>0</u>	<u>0</u>	0.1	<u>0</u>	<u>0</u>	11.7	<u>0</u>	<u>0</u>	<u>152</u>	33.1
dashmacmini2.kitware	DarwinIntel-g++	<u>4</u>	0.7	<u>0</u>	<u>0</u>	2.6	<u>0</u>	<u>0</u>	9	<u>0</u>	<u>0</u>	<u>166</u>	25.7
dashmacmini2.kitware	DarwinIntel-Universal	<u>0</u>	0.3	<u>0</u>	<u>0</u>	3.2	<u>0</u>	<u>0</u>	7.5	<u>0</u>	<u>0</u>	<u>166</u>	29.4
pre.vision.cs.rpi.edu	FreeBSD-CC-gmake	<u>4</u>	1	<u>0</u>	<u>0</u>	4.1	<u>0</u>	<u>0</u>	26.4	<u>0</u>	<u>0</u>	<u>164</u>	37.7
pre.vision.cs.rpi.edu	FreeBSD-CC-make	<u>4</u>	1.1	<u>0</u>	<u>0</u>	4.7	<u>0</u>	<u>0</u>	26.2	<u>0</u>	<u>0</u>	<u>163</u>	38.3
destiny.kitware	HP-UX-aCC	<u>4</u>	1	<u>0</u>	<u>0</u>	0.3	<u>0</u>	<u>0</u>	20.2	<u>0</u>	<u>0</u>	<u>159</u>	62.9
destiny.kitware	HP-UX-aCC-gmake	<u>4</u>	1	<u>0</u>	<u>0</u>	0.3	<u>0</u>	<u>0</u>	20.1	<u>0</u>	<u>0</u>	<u>160</u>	63.9
<u>heart</u>	HP-UXia64-aCC	<u>5</u>	0.3	<u>0</u>	<u>0</u>	5.8	<u>0</u>	<u>0</u>	7.8	<u>0</u>	<u>0</u>	<u>161</u>	23.4
<u>ferrari</u>	IRIX640720206.5IP35-CC	4	0.2	<u>0</u>	<u>0</u>	10.4	<u>0</u>	<u>0</u>	15.9	<u>0</u>	<u>0</u>	<u>160</u>	31.8
mi3c.mayo	Linux-1-SMP2.6.9-i686-Intel	<u>342</u>	3.6	<u>0</u>	<u>0</u>	1.1	<u>0</u>	<u>0</u>	1	<u>0</u>	<u>0</u>	<u>164</u>	9.1

Nightly 2.8 Release

Nightiy 2.0 Release														
Site Build Name			date	Configure				Build		Test				
		Files	Min	Error	Warn	Min	Error	Warn	Min	NotRun	Fail	Pass	Min	
v20n17.pbm.ihost.com	Rei28-AIX5300C518-xiC	<u>21</u>	1	<u>0</u>	<u>0</u>	4	<u>0</u>	Q	4.6	<u>0</u>	<u>0</u>	<u>140</u>	25.9	
dash22	Rel28-CYGWIN2008-01.5.25i686-gcc	Q	0.6	Q	Q	3.9	<u>0</u>	Q	2.1	Q	<u>0</u>	<u>140</u>	76.2	
heart	Rel28-HP-UXUB.11.2ia64-aCC	1	0.2	<u>0</u>	<u>0</u>	4.8	<u>0</u>	Q	7.4	Q	Ō	<u>142</u>	20.5	
ferrari	Rel28-IRIX640720206.5IP35-cc 🖹 🗟	<u>0</u>	0.1	<u>0</u>	Q	9.2	<u>0</u>	Q	15.8	Q	Q	<u>141</u>	29.1	
dash8.kitwarein.com	Rel28-Linux-1-SMP2.4.18ia64-gcc 🗎 🛱	Q	0.3	<u>0</u>	Q	12.5	Q	Q	15.2	Q	Q	<u>144</u>	30.2	
faraway	Rel28-Linux-1-SMP2.6.27x86_64-gcc ■	<u>0</u>	0.1	Q	Q	0.7	Q	Q	0.3	Q	<u>0</u>	<u>147</u>	7.1	
krondor	Rel28-MacOSX10.3.9ppc-gcc 🖹 🗟	<u>0</u>	0.4	<u>0</u>	Q	13.7	Q	Q	24	Q	Q	<u>142</u>	52.2	
dashmacmini2.kitwarein.com	Rel28-MacOSX10.4.11i386-gcc 🖹 🛱	<u>0</u>	0.3	<u>0</u>	<u>0</u>	4.2	<u>0</u>	Q	4.4	Q	Q	<u>146</u>	20.9	
dashmacmini2.kitwarein.com	Rel28-MacOSX10.4.11i386-Xcode	<u>0</u>	1.2	<u>0</u>	<u>0</u>	4	<u>0</u>	Q	6.1	Q	Q	<u>139</u>	22.7	
dashmacmini1.kitwarein.com	Rel28-MacOSX10.4.11ppc-gcc 🖹 🗟	<u>0</u>	0.6	<u>0</u>	<u>0</u>	7.2	<u>0</u>	Q	9.2	Q	Q	<u>146</u>	37.5	
dashmacmini3.kitwarein.com	Rel28-MacOSX10.5.8i386-gcc 🖹 🗟	<u>0</u>	0.4	<u>0</u>	<u>0</u>	3.1	<u>0</u>	Q	3.8	<u>0</u>	Q	<u>142</u>	12.4	
dashsun1	Rel28-SunOSGeneri5.8sun4u-CC	Q	1.5	Q	Q	5	Q	Q	7	Q	Q	<u>146</u>	24.3	
dash22.kitware	Rel28-wcl386	Q	0.6	<u>0</u>	Q	0.8	<u>0</u>	Q	3.1	Q	Q	<u>133</u>	6	
DASH3.kitware	<u>Rel28-Win32-nmake60</u> 🖹 🗟	Q	0.6	Q	Q	1.1	Q	Q	3.5	Q	Q	<u>139</u>	16.9	
dash22	Rel28-Win32-x86-bcc32	Q	0.4	<u>0</u>	Q	0.7	Q	Q	2.1	Q	Q	<u>138</u>	7.9	
dash22	Rel28-Win32-x86-cl-gmake	Q	0.4	<u>0</u>	<u>0</u>	1.8	<u>0</u>	Q	4.7	Q	<u>0</u>	<u>140</u>	24.4	
dash22	Rel28-Win32-x86-cl-nmake	Q	0.5	<u>0</u>	Q	0.9	Q	Q	3	Q	Q	<u>140</u>	12.4	
dash22	Rel28-Win32-x86-MinGWgcc 🖹 🗟	<u>0</u>	0.4	Q	Q	1.3	Q	Q	6.6	Q	Q	<u>138</u>	10	
dash3	Rel28-Win32-x86-msvs6ide	Q	0.6	<u>0</u>	<u>0</u>	3.1	Q	Q	3.5	Q	Q	<u>138</u>	26.1	
DASH20	Rel28-Win32-x86-msvs9ide	<u>0</u>	0.5	<u>0</u>	<u>0</u>	2.2	<u>0</u>	Q	2.1	Q	Q	<u>140</u>	16.8	
dash22	Rel28-Win32-x86-MSYSgcc 🖹 🖥	<u>0</u>	0.4	<u>0</u>	<u>0</u>	3.9	<u>0</u>	Q	8.6	Q	Q	<u>139</u>	29.4	
Totals	21 Builds	22	11.1	0	0	88.1	0	0	137.1	0	0	2960	508.9	



dash22.kitware

Win32-vs9-Release-Coverage

<u>72.6%</u>

Site	Build Name	Upd	late		Configure			Build		Test			
Site	Dunu Wante	Files	Min	Error	Warn	Min	Error	Warn	Min	NotRun	Fail	Pass	
macondo.kitware	Linux-g++4.4.1- KWScene-Debug	<u>0</u>	0	<u>0</u>	Ō	0	Q	<u>0</u>	0	Ō	<u>0</u>	<u>40</u>	
macondo kinvare	Linux-g++4.4.1- KWScene-Debug	<u>0</u>	0	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u> -6	0	<u>0</u>	Ō	<u>40</u>	
Totals	2 Builds	0	0	0	0	0	0	0	0	0	0	80	

Coverage	
Site	Percentage
macondo.kitware	<u>98.58%</u>
macondo.kitware	<u>98.58%</u>

Oh Yes !