

buildlogs

Gordon Watts
DORACE Workshop
Feb 11, 2002

Talk Summary:

<http://d0ntwg02.fnal.gov/buildlogs>

Goals

- Initial Goals
 - A way for me and other build managers to inspect the progress of builds.
 - Needed quick summaries of what the status was
 - Errors by phase, what packages were causing problems, etc.
- Current Goals
 - Remote users easily see what happened in the builds.
 - Apply some sort of criteria to see if a release is useful.

What It Does

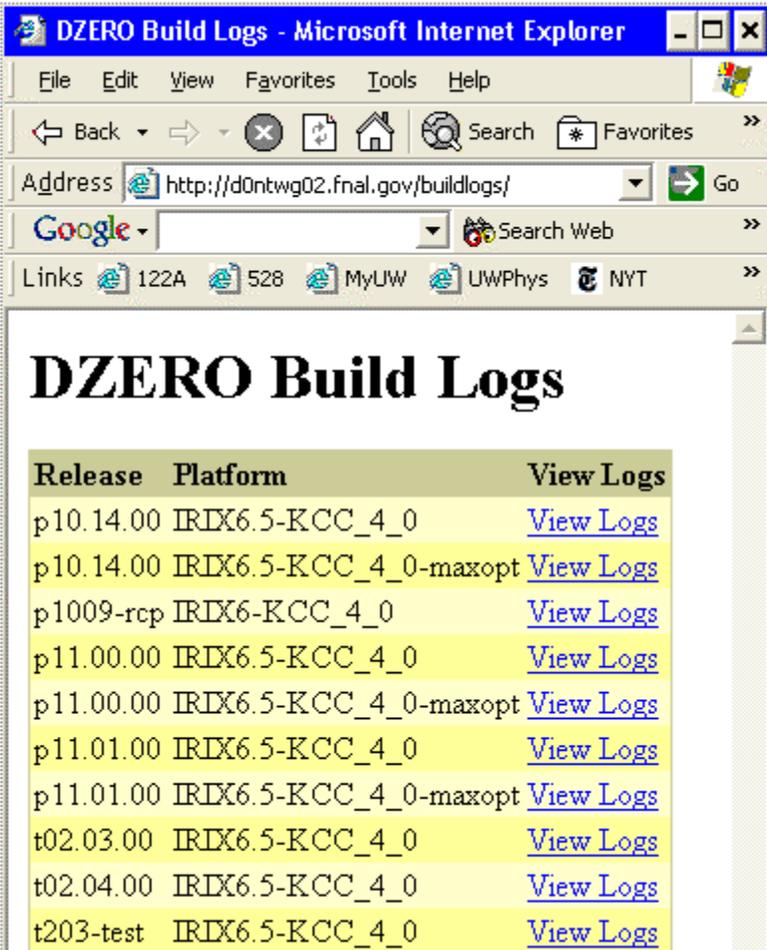
- Scans the release files and log files
 - Tabulates errors
 - Package lists, etc.
- Caches these in a local database
 - Updates every 15 minutes
- Displays them on the web.
- New Since Last Version:
 - A full release scan takes only 10 seconds (so can run much more often)
 - Serves the pages faster
 - Can sort by package name, libdeps order, or number of errors in compile or test phase of build.

Tools

- Old Version
 - JavaScript based for the backend
 - Slow
 - Used Access as the database
 - Slow
 - ASP for the network
 - Hard to maintain as code was very ugly (part of doing it in ASP).
 - Problems with security
 - Especially in this new age of high end security.
- New Version
 - Based on .NET
 - Written in C#
 - Both the backend and the web pages
 - Backend is multi-threaded
 - Much more like a programming language
 - Complete with abstract classes, etc.
 - Should be easy to extend
 - if I've designed it right!

Home Page

- Simple listing of each release name and platform



DZERO Build Logs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://d0ntwg02.fnal.gov/buildlogs/ Go

Google Search Web

Links 122A 528 MyUW UWPhys NYT

DZERO Build Logs

Release	Platform	View Logs
p10.14.00	IRIX6.5-KCC_4_0	View Logs
p10.14.00	IRIX6.5-KCC_4_0-maxopt	View Logs
p1009-rcp	IRIX6-KCC_4_0	View Logs
p11.00.00	IRIX6.5-KCC_4_0	View Logs
p11.00.00	IRIX6.5-KCC_4_0-maxopt	View Logs
p11.01.00	IRIX6.5-KCC_4_0	View Logs
p11.01.00	IRIX6.5-KCC_4_0-maxopt	View Logs
t02.03.00	IRIX6.5-KCC_4_0	View Logs
t02.04.00	IRIX6.5-KCC_4_0	View Logs
t203-test	IRIX6.5-KCC_4_0	View Logs

Release Build

- Listing of all packages
 - Version number is always from most recent build

Build Logs for t02.04.00 on IRIX6.5-KCC_4_0

Build 3 Which build to display (#3 right now)

[Home](#)

Sort by #errors Sort by #errors

Build: [\[1\]](#) [\[2\]](#) [\[3\]](#)

<u>Package Name</u>	<u>Version</u>	<u>Dependency Order</u>	<u>Compile Phase</u>	<u>Test Phase</u>
align_mctup	v00-03-10	314	<u>0</u>	<u>0</u>
alignment_system	v00-01-20	312	<u>0</u>	<u>0</u>
analyze	v00-03-09	117	<u>0</u>	<u>0</u>
bc_eTagreco	v00-03-04	319	<u>0</u>	<u>0</u>
bc_impTagreco	v00-02-14	320	<u>0</u>	<u>0</u>
bc_likeTagreco	v00-02-04	322	<u>0</u>	<u>0</u>
bc_mu	v00-02-08	323	<u>0</u>	<u>0</u>
bc_nnTagreco	v00-00-06	325	<u>0</u>	<u>0</u>
bc_nnTrainer	v00-00-01	326	<u>0</u>	<u>0</u>
bc_vtxTagreco	v00-02-07	327	<u>0</u>	<u>0</u>
bcjet_analyze	v00-03-09	328	<u>0</u>	<u>0</u>

View Log File

Log File

- Errors are highlighted in bold/red
- Uses the same regex expressions as used in the build
 - In fact, downloads them from the /d0dist/dist area on the fly

```
viewLogFile - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Home Search Favorites Media Print Copy Paste
Address http://d0ntwg02.fnal.gov/buildlogs/viewLogFile.aspx?release=t02.04.00&platform=IRIX6.5-KCC_
Google Search Web Search Site PageRank Page Info Up
Links 122A 528 MyUW UWPhys NYT Ars MSDN History xxx
<--> (ctest_rules.mk ; DOScan_data ) libdmmr Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) libdmmr Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) libdmmr Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) libobjjs Tue Feb
#
#----- DOScan_data v00-00-08
#
<--> (GNUmakefile.main ; DOScan_data ) bin Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) bincmp Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) Compiling binary
<--> (ctest_rules.mk ; DOScan_data ) Compiling binary
<--> (ctest_rules.mk ; DOScan_data ) binlnk Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) binlnk Tue Feb
<--> (ctest_rules.mk ; DOScan_data ) binlnk Tue Feb
Warning: wow, that is a lot of libraries on the link line (449)!
Warning: wow, that is a lot of libraries on the link line (448)!
gmake[3]: *** No rule to make target '-llinked_physobj', needed by '/D0/dis
gmake[3]: *** No rule to make target '-llinked_physobj', needed by '/D0/dis
gmake[2]: *** [binSAM.binlnk] Error 2
gmake[2]: *** Waiting for unfinished jobs....
gmake[2]: *** [bin.binlnk] Error 2
Done Internet
```

What it is still missing...

- High Priority
 - Doesn't mark a release when it is ready to be installed via upd
 - What does it mean to test a release? How do people decide if a release is useful for download?
 - A particular package and its dependencies is what you are really interested in?
 - Ideas?
 - Other requests from people??
- Low Priority
 - The build web page is over 300 kb big!
 - The look sucks.