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VI. Checking Log Integrity with LogChecker

• Protection:

- Read: User
- Edit: Delta Team
- Details:
 - Version: r119
 - Last edited by: tishamunroe
 - Last updated: 1 year, 2 months ago
- Aliases:
 - <u>macosxripper</u>
 - <u>xldguide</u>
 - <u>xldrip</u>
 - <u>xldripping</u>
 - <u>xldrippingguide</u>
 - <u>xldsetup</u>
 - <u>xldsetupguide</u>
 - <u>xlosslessdecoderripp...</u>
 - <u>xlosslessdecoderxldh...</u>

Summary

This guide is an introduction that will teach you to configure XLD correctly, to rip a CD, and to check ripping (extraction) logs for a good CD rip. It is intended primarily as a beginners' guide, so some more advanced features are (currently) omitted.

The official software page describes XLD:

X Lossless Decoder (XLD) is a tool for Mac OS X that is able to decode/convert/play

various 'lossless' audio files. The supported audio files can be split into some tracks with cue sheet when decoding. It works on Mac OS X 10.3 and later. XLD is Universal Binary, so it runs natively on both Intel Macs and PPC Macs.

What.CD **STRONGLY** recommends version **20100704** (04 July 2010) or newer. If you are using an older version, then go to XLD menu > Check for Updates to make sure you have the latest version.

This guide was made using the latest version of XLD available at the time. XLD version 20130720 (144.0). Placement of options may vary depending on the version, but the options required to create a proper configuration remains the same.

Download

XLD Application

Download XLD builds and source code from the following links: <u>http://sourceforge.net/projects/xld/</u> <u>http://code.google.com/p/xld/downloads/list</u> + <u>http://code.google.com/p/xld/</u> <u>http://tmkk.undo.jp/xld/index_e.html</u>

Logchecker Plugin

There are several methods of adding LogChecker functionality.

1. You can manually apply the plugin by putting the XLDLogChecker.bundle file into ~/Library/Application Support/XLD/PlugIns. You can go to this folder by using the "Go to Folder" option (cmd+shft+G) from within Finder and pasting the full path into the resulting text box. You can obtain this file via the <u>What.CD Toolbox for OS X</u> or download the XLDLogChecker-20121222.zip file from any of the sites listed above.

2. Alternately, you can download and run <u>an Automator Application</u> that will download the file and install the bundle file for you. (ad-filed mirror: <u>http://d-h.st/ra3</u>)

Once installed properly, you will see an option for "Log Checker" under the XLD menu. You will most likely have to restart XLD for the Log Checker to take effect.

Configuration

It is very important to properly configure XLD for lossless (FLAC) rips so that the ripping log will

score 100% on the logchecker. This guide will also cover encoding lossy formats (such as MP3), as well.

1. After checking for updates go to XLD menu > Preferences, or hit Command-, (Command is the key with the Apple logo).



We will configure the **General** settings tab with the assumption that you will rip a disc to FLAC (and then transcode the FLAC files to MP3 if you desire).

(1) The **Output directory** is set manually each time you rip a disc. If you wish to have a default directory for transcoding, then you may set it now.

(2) Set Character encoding of cuesheet to Unicode (UTF-8).

(3) **Check** the **Automatically check for updates** box. XLD will check for new versions whenever it is launched. The XLD developer frequently releases updates, so checking this box is highly recommended.

(4) The **Maximum #Threads** setting is the number of simultaneous audio conversions that XLD will perform. If you have a multi-processor or multi-core Mac, you should change this setting from 2 to however many your system has. It should be set automatically.

(5) **DO NOT** check the **Correct "30 samples moved offset" problem** box. In brief, if you have the box checked, then your CRCs will not match those of EAC or another ripper. There is no reason to check this box if you are ripping a CD. (For a more technical explanation, see <u>this thread</u>. This option can partially fix a problem with EAC's offset detection, but it is irrelevant for our purposes.)

● ○ ○ Preferences
ABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flacABC flac </td
Output format :
FLAC
Output directory :
 Same as input Specify : set /
Use temporary folder, then move to the destination
Character encoding of cuesheet :
Unicode (UTF-8)
Maximum #Threads : 5 🗣 Priority : Normal 🗘
Correct "30 samples moved offset" problem
Add encoded files to iTunes if possible
• Library
O Playlist Encoded by XLD
Prepend BOM (Byte Order Mark) when saving cue sheet
Automatically check for updates

FLAC: We will begin with with **General** tab. Click on the Output format drop-down menu, select FLAC, and click the Option button. Drag the Compression Level slider to **High**, and **uncheck** "Allow to embed cue sheet". (This option is only relevant if you are ripping a disc to a single file, but these rips are not allowed on What.CD unless the tracks have been re-split into individual files. Uncheck and ignore it.) Then click OK.

● ○ ○ Preferences
ABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC .flacABC <br< td=""></br<>
Output format :
FLAC
Output directory :
 Same as input Specify : set
/XLD rips
Use temporary folder, then move to the destination
Character encoding of cuesheet :
Unicode (UTF-8)
Maximum #Threads : 5 🔹 Priority : Normal 🗘
Correct "30 samples moved offset" problem
Add encoded files to iTunes if possible
• Library
Playlist Encoded by XLD
Prepend BOM (Byte Order Mark) when saving cue sheet
Automatically check for updates

$\bigcirc \bigcirc \bigcirc \bigcirc$	Preferences
General File Naming	Batch CDDB Metadata CD Rip CD Burn
Output format : FLAC Output directory Same a: Specify /XLD rir Use tem Character encodi Unicode	Compression Level None Normal None Normal High Custom Apodization Functions tukey(0.5);flattop Padding : 4 KB OggFLAC Allow to embed cue sheet Allow to write ReplayGain tags Set 'OggS' filetype
Maximum #Thre	Powered by FLAC 1.3.0
Correct "30 sa Add encoded Library Playlist	OK Encoded by XLD
Prepend BOM (Byte Order Mark) when saving cue sheet
Automatically o	check for updates

2. This is the File Naming Tab.

(1) There are several options for filenames and directory names. It is **ALWAYS** recommended to include, at minimum, track number and track title in the filenames. If you upload a torrent missing these, then someone may re-name the files and trump your torrent. (A meaningful directory name is also required: the minimum is to include the album title. If you upload a torrent with a root directory name that omits the album name, then someone may rename the folder and trump your torrent.)

When ripping or converting, consider using one of the following:

%A - %T (%y) [%f]/%n %t

or

%A - %y - %T [%f]/%n %t

(Click the **Custom** radio button to enter text.) Either of these codes will create a folder for you and put the tracks in it. Copying the code from this page then pasting it into the field is recommended to prevent code input errors.

Note that %f isn't always all that useful; 'LAME MP3' is not as descriptive as 'V0' as you'll have to manually correct that if you rely on the %f option. However, XLD will create one folder for each format you are ripping to multiple formats! A workaround to this previous limitation is to set the Output format (under the General tab) to Multiple Formats, then each of the output formats (%f) can be named to appropriate names such as V0, V2, 320K LAME, etc.

\bigcirc \bigcirc \bigcirc		Preferences			
General	ABC flac File Naming Batch	CDDB Metadata CD Rip	CD Burn		
Ou	WAV	\$ Add			
Ou	 ✓ V0 ✓ V2 ✓ 320 ✓ FLAC 		Edit Remove		
Ch			stination		
Ma			ОК		
	neer so sumples	moved onset problem			
Ad	d encoded files to	o iTunes if possible			
	• Library				
OPlaylist Encoded by XLD					
Prepend BOM (Byte Order Mark) when saving cue sheet					
🗹 Au	tomatically check	for updates			

For compilations, you could use

%A - %T (%y) [%f]/%n - %a - %t

which adds the track artist to each track name.

You can choose from the following options. Forward slashes (i.e., /)will be translated to new folders:

%D - disc number %I - disc id %A - album artist %T - album title %a - track artist %c - composer %f - format (the same name as in the 'Output format' dropdown, so 'FLAC' or 'LAME MP3', etc.) %g - genre %i - ISRC %m - MCN %n - track number %t - track title %y - year

(2) Set the filename option to **Overwrite**.

(3) In this tab, you may also specify character replacements, which are useful since certain operating systems have a restricted character set that cannot be used in file names. While OS X may handle these characters perfectly well, other operating systems, such as Windows, will not allow for these characters in the file names. This restricted character set corresponds to the what.cd illegal characters as present on upload.php.

$\bigcirc \bigcirc \bigcirc$			Preferenc	es		
General F	ABC .flac	atch CDDB		CD Rip	CD Burn	
Format	of filename	:				
	Default Custom : [%A – %y – %	T [%f]/%n – 9	6t		
lf the fil	le with the sa	ame name	already e>	cists :		
	Rename					
\langle	Skip					
C	Overwrite					
Rules fo	or replacing (characters	in filenam	es :		
C	Character	R	eplace with			
/	1	/	/			
:		:				
					+ -	

3. Now we move on to the **Batch** tab. It is useful when converting nested directories, such as one folder that contains two more folders with tracks you wish to convert. You can drag the main folder onto XLD's dock icon and it will batch-convert the folders.

(1) Check the Preserve directory structures box.

(2) Set Subdirectory search depth to 0.

(3) Optionally, **check** the **Automatically split file with embedded cue sheet** box. Single-track rips are beyond the scope of this article, as unsplit lossless albums are not allowed on What.CD.

● ○ ○ Preferences				
ABC flacABC flacABC flacImage: Constraint of the second sec				
 Preserve directory structures Subdirectory search depth : 0 (0: unlimited) Restrict files to open with extension : 				
wav aiff flac wv ape tta				
 Automatically split file with embedded cue sheet Delete original files after successful conversion Warn when starting 				

4. The CDDB tab can be left alone. You may edit the settings if you feel so inclined.

$\Theta \odot \Theta$	Preferences					
General F	ABC flacImage: Second					
FreeDB						
Serv	er : freedb.freedb.org Port : 80					
Pa	th : /~cddb/cddb.cgi					
Ca	ache database to the local and use it as a primary					
Amazo	n					
	se Amazon Web Services					
Ac	ccess Key :					
S	ecret Key :					
	Country : United States +					
🗌 Use	Proxy					
Pr	oxy Server : Port :					
Username : Password :						
 Automatically connect to CDDB Don't prompt if multiple candidates are found 						
Preferre	ed Service : FreeDB					

5. In the **Metadata** tab, you choose whether or not you want to embed album artwork into files. The only What.CD rule concerning embedded artwork states that embedded images should be kept <u>below</u>

<u>512KB</u>. To avoid the problem entirely, and to give downloaders the choice to handle tags as they want, you may simply choose to not embed album artwork.

(1) Uncheck the Embed cover art images into files box, if you choose.

(2) Uncheck the Set the Compilation flag automatically box.

(3) Edit tags before convert will force XLD to prompt you to review and edit tags before making any conversions, including ripping CDs. Check the box if you choose.

(4) It is generally okay to leave the **Preserve unknown metadata if possible** box checked, but you may disable it if you choose.

● ○ ○ Preferences					
ABC flacABC flacImage: Second					
Add tags to the output files if possible					
Edit tags before convert					
Embed cover art images into files					
Scale large images when embedding cover art					
Also scale small images					
 Width Height to 500 Pixel Shorter side Longer side 					
Compression Quality :					
70					
\checkmark Load following files in the same folder as a cover art					
cover.jpg folder.jpg front.jpg					
Don't overwrite already embedded images					
Set the Compilation flag automatically					
🗹 Preserve unknown metadata if possible					
Keep the original timestamp					
Default value of the comment tag :					

6: CD Rip

These settings are crucial to obtaining an exact copy of a disc, and the importance is quantized in the logchecker's assessment of your extraction log. Read more about the automated logchecker in <u>this</u> <u>wiki article</u>

(1) Use the **XLD Secure Ripper Mode**.

(2) XLD should be able to read your drive's **Read sample offset correction value** automatically.

Click the black triangle next to the field to display your drive(s). You can look up your drive in <u>AccurateRip drive offset database</u>. NOTE: Matsushita brand drives are listed as Panasonic in the AccurateRip list. Normally, however, XLD can find your drive's offset, so this step is usually unnecessary.

(3) If your drive's read offset is correct, then XLD will try to search the AccurateRip database to verify the integrity of your rip by comparing it to the rips of other people. See

http://www.accuraterip.com/ for more information. **DO NOT** check the "Treat AccurateRip mismatch as an inconsistency in log" box.

(4) **Always** save a log file and cue. Without a log, there is no easy way to verify the quality of your rip.

(5) Verify suspicious sectors. The logchecker will deduct points if this box is unchecked. Without this setting, your log score will be decreased by 5 points.

(6) Always enable Test before copy (also called test-and-copy).

(7) **Check** the **Scan ReplayGain** box. Regardles of whether you prefer ReplayGain tags in your music files, ReplayGain should be enabled here. XLD will not add ReplayGain tags to the FLAC files, but it will include peak level information in the ripping log. This is used to help differentiate the different pressings of discs.

$\bigcirc \bigcirc \bigcirc$	Preferences					
General File Naming	Batch CDDB Metadata CD Rip CD Burn					
Ripper Mode : Use C2 er Max retry count	XLD Secure Ripper \$ ror pointers (drive support is required) 100 : 100 Fract correction uplue : CCZ					
Read samples of	atically if possible					
Drive Speed Con	trol · Automatic 4					
Query Accura (To use, read sa	Query AccurateRip database to check integrity (To use, read sample offset correction value should be correct)					
Save Log File :	Always \$					
Save Cue Sheet :	Always \$					
🗹 Verify suspici	ous sectors (may slow down ripping)					
🗹 Test before c	opy (half as fast)					
• Alv/ays						
Only wher	Only when the track does not exist in AccurateRip DB					
Scan RenlayGain						
Automatically open disc on insertion						
Start rippi	ng automatically					
🗌 Eject disc when done						
Quit XLD whe	n done					

Ripping

Now that we have configured XLD, we can finally begin ripping CDs. Once you have XLD configured once, you can jump straight to here each time you want to rip a disc. **1.** Insert the CD into your drive and open XLD (not necessarily in that order).

2. Go to File menu > Open Audio CD

Ś	XLD	File	Edit	CDDB	Profile	Windo	w Helj	р		
		Nev Ope Ope Ope	w en en Raw en Folc	PCM (b ler As a	in+cue) Disc	ЖN ЖО				
		Ор	en Aud	io CD			Audio	o CD	企業O	
		Ор	en Rec	ent			Refre	sh List	☆ <mark></mark> ೫R	
		Clo Sav Sav Rev	se ce Cue ce with vert	Sheet As Offset C	S Correctior	₩₩ ₩S				
		Edi Imp	t Metao port Ta	data gs from	a Text	ЖI				
		Che Det	eck file ect Of	with Ac fset	curateRip)				
		Sca	n Repl	ayGain						
		Mea	asure [Drive Ca	che Abilit	У				
		Pag Prir	je Setu nt	p		∂ ፝ ፝				

3. XLD will now detect pre-gaps for the disc. https://whatimg.com/i/14916015923920126509.png https://whatimg.com/i/85966630122229190287.png

4. Add tags. Go to CDBB menu > Query Items > and choose the options you would like. It is recommended to not embed artwork, as it may be of low quality or incorrect. It is simplest to include the album cover as an image in your torrent directory, e.g. a cover.jpg or folder.jpg.

ALD File Eult	CDDB Prome window Help	
	Get CD Track Names රිස	жм
	Query Items	Query Only Empty Items
	Get Metadata from URL	✓ Disc Title
	Associate MusicBrainz DiscID with the Existing Release Open MusicBrainz Release Page	✓ Track Title ✓ Artist Genre
	Search Cover Art	√ Year
		Cover Art

Then, go to CDBB menu > Get CD Track Names to check MusicBrainz and/or FreeDB for tags.



If tags are not found or are incorrect, then manually enter the correct tags. Do not skip this step, as a minimum tagging standard is required by <u>rule 2.3.12</u>. In the image below, tags cannot be found. Select all the tracks (Command-A), and then go to File menu > Edit Metadata, or hit Command-I.

000		🕙 Audio CD		
Include pre-gap except fo	or HTOA		Extract Get Me	adata Edit Metadata Burn CD
Audio CD				
	No Image	Audio CD	Edit Multiple Tracks	
-	✓ Track Title			Length Pregap
	1 Track 01			03:59:40 00:00:00
	2 Track 02	Artist		04:49:55 00:02:08
		Album		
		Album Artist		
		Genre		
		Composer		
		Year/Date		
		Disc		
		Comment		
		Compilation	Yes Cancel OK	
AccurateRip: NO		8:49:20 Total		

You can now enter the artist, album title, year, and disc number automatically for all tracks. Click OK when done.

Include pre-gap except for HTOA Image: Constraint of the second	Extract Get Metadata Edit Metadata Burn CD
Audio CD V Track Title V Track 01 V Track 01 V Track 01 V Track 02 V Track 0	e Edit Multiple Tracks e

Then, click the first track to select it, and then hit Command-I again (or go to File menu > Edit Metadata). Enter the correct track title for the first track, then click Next, then enter the correct track title for the second track, then click Next, then.... Repeat until all track titles are entered, and click OK.

At the top of this screen before you rip you should select the option "**Include pre-gap except for HTOA**." If a CD you rip has hidden track one audio, or a track hidden in the pre-gap (or even simply some empty space as is quite common, and illustrated in this example), this option will cause XLD to rip like EAC and not include the pre-gap audio in the first track.

\varTheta 🖯 🕤 🍈 Ghetto Gospel					
Include pre-gap except fo	or HTOA 🛟		Extract Get Metadata	ata Burn CD	
🔇 Ghetto Gospel	No Image Ghetto C 2PAC	iospel			
	✓ Track Title	Artist	Length	Pregap	
	✓ 1 Ghetto Gospel	2PAC	03:59:40	00:00:00	
	2 Thugs det Lonely Too (reat. K	ate Düği) ZFAC	04.43.33	00.02.08	
AccurateRip: NO		8:49:20 Total			

Note: If you need to extract the hidden track one audio (HTOA), rip the track again using the option "Include pre-gap for all tracks." This will make XLD rip starting at sector 0 where a hidden track would be instead of where the regular first track begins. Ripping as a single file is another way to extract pre-gap audio, but should be avoided if you are doing just a normal CD rip, as a single file rip will not be scored 100%. It is suggested you do this after copying your first rip elsewhere as not to over-write anything you've already done. You may then split the 'Track 0' out from this track 0+1 file using other means and may include it in your upload.

5. Click open, and XLD will begin extraction. A new window named Progess will appear. XLD will rip the first track once (as a test), and then rip it again (as the copy saved to your disk). The CRCs for both tracks will be written to the log file and checked against the AccurateRip database, if your disc is found. Extraction may take anywhere from 30 minutes to over an hour, depending on your drive, the length of the disc, and the condition of the disc.

https://whatimg.com/i/90066007025207233614.png

When the extraction has finished, a new window named Log appears. Because you have told XLD to always save a log file, you can close this window. The log file will appear in same folder as the FLAC files and cue sheet.

Log Analysis

Main things to look for

The main things you need to look for are log errors, the test CRC hash, the actual rip CRC hash, and AccurateRip results to justify the CRC values from the test and rip.

LOG CONSOLIDATION WARNING

THIS IN NO WAY MEANS that you are free to consolidate logs by opening up your original rip log and substituting the faulty rip results with the re-ripped track results. When XLD outputs your original log and any additional track-specific rip logs, DO NOT OPEN THE LOGS. Include all logs for this album in your torrent folder and upload each log individually to the site on the upload page. The site will have no problems reading these logs correctly.

AccurateRip

AccurateRip may or may not confirm whether an album has been ripped properly: there are false negatives from previous poor submissions, false positives (rarely) from identical bad rips, and many, many albums with no data at all. This is why it the "Treat AccurateRip mismatch as an inconsistency

in log" box should be left unchecked.

AccurateRip should always be enabled. Not only does it mean that you have configured (some) settings correctly, it should also mean that your drive's offset is correct. AccurateRip matches in the ripping log can suggest that your rip is "accurate". If you have enabled AccurateRip and the CD you are trying to rip is in its database, [AR] will appear in the title bar for an opened disc.

XLD cannot currently submit rip results to the AccurateRip database.

Errors (CDParanoia III 10.2 Ripper Mode)

Sometimes you may get errors in ripping your tracks. Some are still acceptable if you only see a few of them. Other errors are not as good, and they indicate unrecoverable problems with your rips. Because XLD uses CDparanoia, logs may sometimes list a number of errors, and they still report the "No errors occurred / End of status report" message at the end. This is similar to a proper EAC rip that reports one or more track quality values of under 100%.

Major errors

If you have any of these, you should re-rip those tracks with the errors.

- Read error
- Skipped (treated as error)
- Inconsistency in error sectors

Acceptable errors

These errors are common and most often can be fixed by cdparanoia. They will not affect the quality of your rips. These are labeled as "(maybe fixed)" in the log.

- Edge jitter error
- Atom jitter error
- Drift Error
- Dropped bytes error
- Duplicated bytes error

Conclusion

If your CRCs match up and you don't have any of the "bad" errors that are listed above, then your rip is considered good. AccurateRip isn't that relevant to your rip as things can interfere with the quality of AccurateRip results as stated above. A rip that only has Edge, Atom, Drop, Drift, or Dupe "maybe fixed" errors is most likely clean. For a detailed discussion of XLD's error reporting, see this thread at HydrogenAudio.

Errors (XLD Secure Ripper Mode)

Sometimes you may get errors in ripping your tracks. Some are still acceptable if you only see a few of them. Other errors are not as good, and they indicate unrecoverable problems with your rips. Since the XLD Secure Ripper reports additional information on rip quality, logs may sometimes list a number of errors and still report the "No errors occurred / End of status report" message. This is similar to a proper EAC rip that reports one or more track quality values of under 100%.

Major errors

If you have any of these, you should re-rip those tracks with the errors.

- Read Error
- Damaged Sector Count

Acceptable errors

These errors are common and most often can be fixed by XLD. They will not affect the quality of your rips. These are labeled as "(maybe fixed)" in the log.

- Jitter error (maybe fixed)
- Retry sector count

Conclusion

If your CRCs match up and you don't have any of the "bad" errors that are listed above, then your rip is considered good. AccurateRip isn't that relevant to your rip as things can interfere with the quality of AccurateRip results as stated above. A rip that only has either jitter errors or retry sector count errors is most likely good. Refer to the XLD official release notes for more detailed explanations of each error (under Version 20101115).

Checking Log Integrity with LogChecker

For logs which have the signature, log tamper detection can be done with XLD version 20121027 or later (the plugin must be installed). To perform a check, run XLD and choose XLD menu -> Log Checker. Checking is done quickly and the result appears when you drag files to the log checker window.

Also, by using the command line version, % xld --logchecker logfile.log will check files.

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Time: 23.47112 ms Used: 1.25 MB Load: 2.17 1.92 1.44 Date: Mar 06 2016, 23:11 Rev: 20596