

# Auto Gordian Knot

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## Survey

### Have you switched to Vista yet?

Yes, fully!  
I'm running XP/  
Vista in parallel.  
No, but really want  
to.  
No and not planning  
to.

#### Results Polls

Votes **34344**

## Ad

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## Introduction

Hello, and welcome to Auto Gordian Knot (from here on known as AutoGK). We hope you'll enjoy using it, and that you'll learn to back up your DVDs or captures easily and with good quality, to be played in your DVD/MPEG4 player, or on your computer, or perhaps from your computer to your TV set through a TV out on your graphics card.

Before getting started, there are some things you should know. First and foremost is that the laws of different countries vary when it comes to backing up your personally owned DVDs. But almost none allow the backing up of borrowed or rented DVDs. So please familiarize yourself with the laws of your own country regarding the backing up of DVDs. Once more to make this perfectly clear; this guide will take you through the process of backing up your personally owned DVD disks and it was not written to be used for piracy. The author assumes that you own the DVD and that you will be using the copy for your own personal use. It is illegal to even give away copies of movies with copyrighted material. The author does not take any responsibility for the illegal use of this guide or of AutoGK.

Enough of that unpleasantness. We'll keep this as simple as possible, and assume that you've never done this before. Next we'll tackle the hardware and software requirements.

## Hardware Requirements

You'll need a computer with either a DVD-ROM or a DVD burner. CD-ROMs can't read DVDs. In addition, you'll need lots of hard drive space, up to as much as 10 GBs per movie. This will vary, depending on the total size of the VOB files (the files that make up the DVD), the number of CDs you're going for, whether or not you're converting the audio to MP3, and a few other things. But nothing is worse than spending all that time to do the encoding, and then running out of space when the final .avi is being written.

So, how powerful of a computer will you need? As powerful as possible. It's possible to do this with a 500 MHz processor, but the total time involved may be as much as 24 hours, depending on a number of factors. A 1 GHz processor may take up to 12 hours. An Intel 2.4 GHz processor may take a total of 5-6 hours or so, and the fastest of today's processors may take 3-4 hours. But there are other variables involved, including the length of the movie, the resolution at which you're encoding, how your system is set up, so these are by no means hard and fast rules. In addition, the quality and amount of RAM is an important factor. Make sure that your computer is as stable as possible. Overclockers, especially, should be aware of this. The fact that you can play Counter-Strike all day with no problems means nothing when it comes to video encoding. There is very little that you can do on a computer that stresses it as much as video encoding. One sign of an unstable computer is if the audio or video encoding causes the computer to crash at random places; that is, at different places during subsequent attempts. These crashes may take the form of a complete freeze up, a blue screen, or a reboot. The cause is often heat buildup, but it may also be brought about by CPU or memory problems, or something more obscure.

## Donations

Please donate if you like the tool and wish to see it improving



## Ads

## Traffic Report

The public viewed  
**23956654**  
pages since August 12,  
2004

#### Total Hits

- New Today **20,800**
- New Yesterday **20,440**

#### Average Hits

- Hourly 729.27
- Daily 17,502.4
- Monthly 532,370
- Yearly 6,388,441

#### Server Time

- Time 23:38:26
- Date 04 Apr 2008
- Timezone -0400

These problems don't just happen to those people that build their own computers. Many "store-bought" computers may also have these problems. It's not really our responsibility to diagnose and fix computer hardware instabilities. If you suspect CPU problems, you might run Prime95 to test the CPU. If you suspect memory problems, then you might run MemTest86 to test the memory. If you suspect overheating, then take the case cover off of your computer and run a table fan blowing towards the CPU while encoding. If you can get through the encoding when doing that, but couldn't before, then heat buildup is probably the problem. The solutions might include checking to see if the CPU is seated properly, putting on some fresh heat sink paste, installing more fans, or, if overclocked, turning down the OC or the RAM settings. Both Intel and AMD processors work well for video encoding. Apple computers can't be used with AutoGK. In sum, use the fastest CPU that you can afford, have high quality memory, and lots of it. Lockups and crashes, if they occur, are almost certainly the fault of your computer. AutoGK and the programs it uses have been tested thoroughly and used, in many cases for years, by many thousands of people. These warnings aren't meant to scare you away from video encoding, but just so you'll understand if something does happen. The chances are excellent that you'll sail through this.

## Software Requirements and Installation

AutoGK comes with almost all that you'll need to create excellent quality backups of your DVDs. If you choose to use the DivX 5.2.1 Codec, you'll have to get and install that as well (link at bottom). But the AutoGK Installer will install everything else that you need. Just designate a folder for the installation, and everything will be taken care of. Optional programs include the XviD Coder/Decoder, AviSynth, and VobSub. If you already have the most recent versions of them, then you don't need to install them again (although with regarding of codecs - AutoGK is meant to work only with codecs that are bundled with it or mentioned in this tutorial or FAQ. Newer versions of codecs are not automatically supported, so only use them if you know for sure that they work with AutoGK). If you don't already have them, aren't sure if you have them, or have no idea what they are, then go ahead and install them. You'll need them for your encoding.

A note for those with standalone DVD/MPEG4 players. There are two standalone compatibility options available for you during installation of AutoGK (note they also available after you installed AutoGK in its [hidden options](#)):

- **ESS-based standalones.** MPEG4 players with ESS chipsets don't work with the matrices that AutoGK uses with the XviD Codec (you don't have to understand what a matrix is, just follow the instructions). Please choose this option if you have such player. Perhaps the problem will be fixed with a firmware upgrade, and perhaps not. But you won't be losing anything, or getting a movie inferior in any way by choosing that option. If you have such a standalone player, and your XviD videos play with corruption and/or smearing, try this setting. For both XviD and DivX codecs this option also enables Home Theatre profile which is a part of DivX certification for hardware devices and which enables control over VBV buffer. Most standalones have issues with high bitrate spikes that cause internal memory of the player to be full and do not accept more data for a short period of time. This causes pauses, skips and and shuttering. Both DivX and XviD support intelligent control of output buffer overflows so that this problem can be eliminated. Make sure to turn this option on if you experiencing such symptoms during playback on your standalone. Note that its not the only possible reason for having pauses and skips - users reported that by burning movies onto DVDRs instead of CDRs playback can be dramatically improved. Also quality of DVD reader in standalone players varies a lot and cheap reader can be a reason behind your problems as well (check out Doom9's hardware forum for related discussions)
- **MTK/Sigma based standalones.** The difference to the previous option is only usage of custom matrices for XviD. VBV buffer control (in the form of HT profiles) is enabled as well by this setting.

If you are not sure which standalone you have its safer to activate ESS support which is the most universal at the moment.

## Using AutoGK

First, you have to select an appropriate input file that AutoGK is going to be dealing with and which determines also the type of input source:

- **IFO file** is used when you have a DVD like directory that contains IFO file and corresponding VOB files. IFO file is parsed and choice of audio streams and subtitles is presented to the user. If IFO file contains multiple PGCs (program chains) or angles then user will be asked to confirm which ones contained in the vobset (unless the name of VOB file contain this information already). Note that AutoGK cannot work properly on a vobset that still has multiple angles/program chains, so make sure to use appropriate tools to prepare the vobset. Another thing to remember is that AutoGK only works on unencripted VOB files.
- **MPEG, MPEG, VOB, VRO, M2V, M1V, DAT files** are expected to have MPEG1/MPEG2 video inside. Only information about

audio type (but not language in case of VOBs) is available for these types of files.

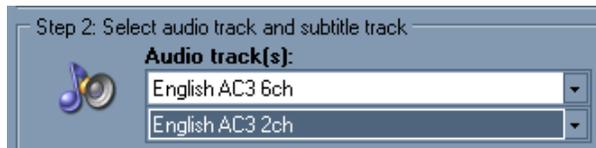
- **TS, TP, TRP, M2T files** are expected to be transport streams with MPEG2 video inside. If it has multiple video streams then you'll be asked to confirm which stream AutoGK will be working with.
- **AVI files** can have potentially any type of video inside (including DivX/XviD and DV sources). Main requirement for AutoGK to be able to process them is that they can be played in Windows Media Player (or any other DirectShow-based player) on your Windows installation. For current limitations and features see latest FAQ on AutoGK's web site

If you want to encode multiple input files into one resulting AVI you can do it by appropriately naming input files: \*\_1.vob; \*\_2.vob etc and selecting just the first one (Extension can be any of supported types apart from AVI). In IFO mode AutoGK automatically selects all VOBs that belong to one vobset.

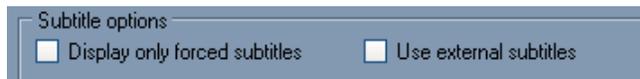
In AutoGK select the input file. Select the Output File where you want the intermediate files and final .avi to go. It's usually the same as the Input file. For the Audio track, select the one you want. Frequently, you'll have audio tracks in different languages on the DVD. There may also be a 6 channel AC3 (Dolby Digital 5.1), a 2 channel AC3 (DD 2.0), for older, classic films a 1 channel AC3 (DD 1.0) and/or a Director's Commentary track. If you plan on using MP3 audio, it might be better to choose the 2 track DD 2.0 if there is one. If you're going for 2 CDs and want the best quality audio, then choose the 6 track DD 5.1 if available. If you want subtitles with your .avi, then choose one of the available languages. These will be "burnt-in" by default, unless you choose external subtitles in the Advanced Settings. That is, they'll be encoded into the video. About the Output size; the default is for 2 CDs and the AC3 audio (DD 5.1, or 2.0 if no 5.1 is available). If you want to try and put the movie onto 1 CD (with lower resolution and therefore somewhat lower quality), then choose 1 CD, and MP3 audio will be chosen by default. Some movies are long and/or difficult to compress. So (rarely) you may wish to go for 3 CDs. Be warned though; it's sometimes not possible to fill 3 CDs, even at the highest quality and resolution.



**Step 1:** Select input file name. Output file name will be filled in automatically from input file name (you can change it of course) or its name would be suggested in the Save As dialog from parent directory of IFO file. You can write them just about anyway you want (but if you're using Win9x OS then its better to avoid non-english characters in the name of files/directories).



**Step 2:** By default the first Audio track is chosen, but feel free to choose another of the audio tracks. If you go for more than 1 CD encode it will be included unchanged (not converted to MP3) with the video. However, if you are doing 1CD or less encode then it will be automatically converted to ABR MP3 (which is a form of VBR MP3) at 128 kbps. Second audio track can be selected as well and it might be the Director's Commentary, or a second language. In this example I've chosen to include main audio track and a secondary track that is a Director's Commentary. This second audio track will be encoded as ABR MP3 at 128 kbps. Advanced Settings (step 4) will allow you to select audio settings manually: whether always leave audio as original AC3/DTS or always convert to MP3. Note that if you are using manual audio settings with two audio tracks then they would both have the same settings. Another thing to remember is that if you are using "target quality" mode (step 3) then by default first audio will be left as AC3/DTS.

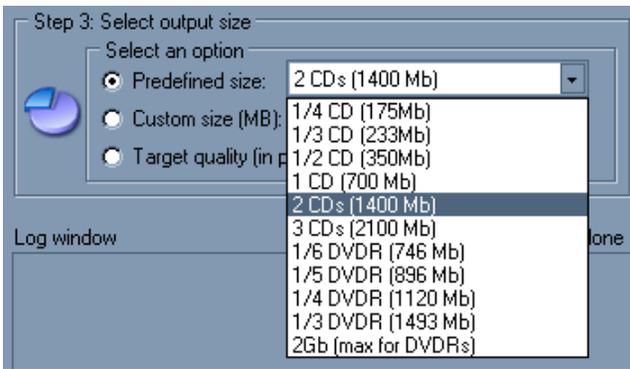


If you want burnt in subtitles, then choose your subtitle track. The default setting is for burned in or subtitles embedded into the video (i.e. you cannot switch them on or off dynamically). If you would prefer to have external subs, then check that box in Advanced Settings.

Let's go into a bit more details about Subtitles. As mentioned before, the default is for burnt-in, or hard coded or embedded subs. You can only have one language of subs at the default setting (because you wouldn't be able to read two embedded subtitle streams due to overlap). If you prefer to have external or separate subs to be displayed through DirectVobSub, choose your subtitle language in the main screen, and then tick "Use External Subtitles" in Advanced Settings. At the moment, External Subtitles cannot be displayed by standalone DVD/MPEG4 players, although that's in the process of changing. After selecting External Subs, it's then possible to have subtitles in 2 languages. With external subtitles you also have a choice of having all subtitles to be included in the output subtitle files (although you have to reload input source in order to "All Subtitles" option to appear).

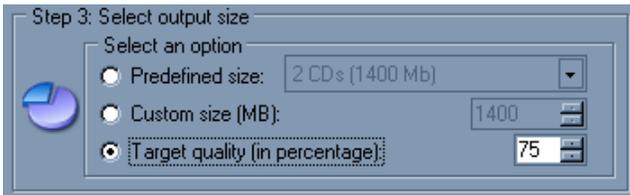
No adjustments of the subtitles are possible (i.e. position, color, font etc.) inside AutoGK. However if you're experienced enough and can rip subtitles manually via programs like SubRip (that converts bitmap subtitles from DVDs into text format) or just would like to mess around with VobSub's IDX files then you can enable external input subtitles option via CTRL-F8. When this option is enabled AutoGK will take external txt/srt/ssa/idx subtitles and burn them into resulting AVI. All other subtitle selections will be ignored when processing external subtitles. The only automatic subtitle adjustment that AutoGK can do is the one described in [Hidden Options](#) section (option 14).

Another Subtitle Option in the Advanced Settings is Forced Subs. Ticking that box does NOT force AutoGK to put the subs into the movie. It's for a special class of subtitles that you'll want, even if you don't want the regular subtitles in your language. Examples of Forced Subs may include the Elvish spoken in the LOTR movies, the Alien languages of the Star Wars movies, the Spanish spoken in Traffic, or sometimes signs in a different language. Forced Subtitles can be real tricky to find. Sometimes (usually) they are part of the main subtitle stream. In such cases, tick the Subtitle Stream in your language on the main screen, and then check "Display only Forced Subtitles" in Advanced Settings. Sometimes they have their own separate Sub Stream. So, you will choose a different Subtitle Stream on the main screen, and then do NOT choose Forced Subs in the Advanced Settings. Sometimes Subtitle Streams, regular or forced subs, are mislabeled and will be in a different language than what it says. The best advice that I can give is to run the Preview before doing the encoding to make sure that you have the right subs. There's nothing worse than spending all the time to encode the movie, and then finding out that you have to do it all over again because the subs don't show up. When looking for Forced Subs, try different combinations of languages on the main screen plus Forced Subs in Advanced Settings, or languages on the main screen only. Yeah, I know it's difficult and time consuming. But at least there aren't many movies with Forced Subs.

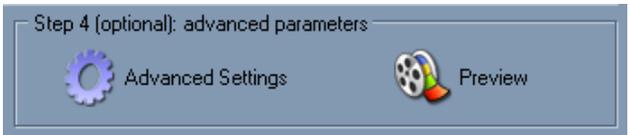


**Step 3:** Here we see the Output Size Box. The default is for 2 CDs. If you have a TV series, or anime episodes, or some such, on the DVD, you may want to choose to use 1/4, 1/3 or 1/2 CD for each. Although the default is for a 2 CD rip, you may want to put the movie onto 1 CD or 3 CDs. If you plan to put your movie onto a DVD-R, then you might want to choose the 2 GB option, or fit several movies on one DVD-R by choosing one of the fractions of a DVD-R. If you make a 2 or 3 CD rip, then it will also be split into 700 MB pieces for you. 2 GB and different DVD-R sized rips won't be split.

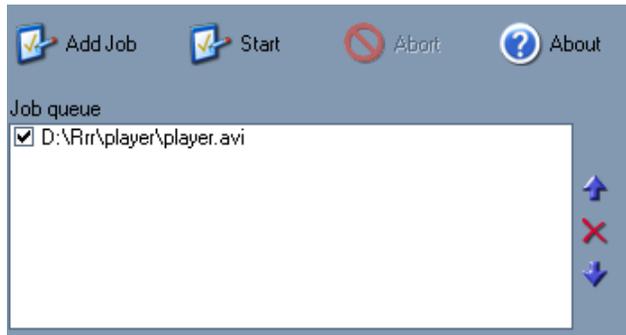
There are other Output Size options besides the Predefined Size options. Maybe you have CDs of a different size than the standard 700 MB ones. Maybe you're going to keep the movie on the hard drive or put it on a DVD-R. In such cases you might want to choose a Custom Size. So tick Custom Size, and either fill in or use the up/down arrows to select a Custom Size. A Custom Size won't be split. If you happen to choose a Custom Size of 1400 or 2100 MB, then it will be split, like a 2 or 3 CD rip will be split. If you want a Custom Size for those sizes, then make them for a slightly different size, such as 1401 or 2101 MB.



Another Output Size possibility is Target Quality (in Percentage). If, for example, you keep your movies on your hard drive, or run an HTPC, or plan to burn them to DVD-R and not to CD-R, then the final file size may not be important to you. A Quality encode will give you even quality throughout the movie at your designated percentage. The default is 75%, which will give you very good quality (but for DivX6 default is 60%). Good quality percentages begin at about 67% (Quantizer 3). I don't think there's much point in going above about 80% because then you'll lose some of the benefits of MPEG4's compression abilities. That's up to you, though. But remember, if you use a Percentage output, you'll lose control over file size. A Quality Percentage rip won't be split. The horizontal width will always be input source width, unless you set a fixed/maximum/minimum width in the Advanced Settings. **Note: "Target Quality" mode performs 1-pass encoding while "Target Size" performs 2-passes encoding.** (1 pass can speed up encoding considerably, but its not two times faster as you may expect.)



Step 4: I'll get to the Advanced Settings and the Preview shortly



When you're done setting up each movie, hit the Add Job button. If you're doing only one movie, then hit Start next, and AutoGK will begin to go to work. If you want to encode more than one job (movie or episode) during this encoding session, then go back and start the process over again. Then when all done, hit Start, and the movies/episodes will be encoded one after the other. If you have more than one movie set up to be encoded, it's also possible to rearrange their order in the queue, or to delete one or more entirely. Note that you cannot pause the job once its started but if you want temporarily stop encoding after current job is finished you can do so by unticking all other jobs in the queue (to restart them afterwards tick them back and hit Start).

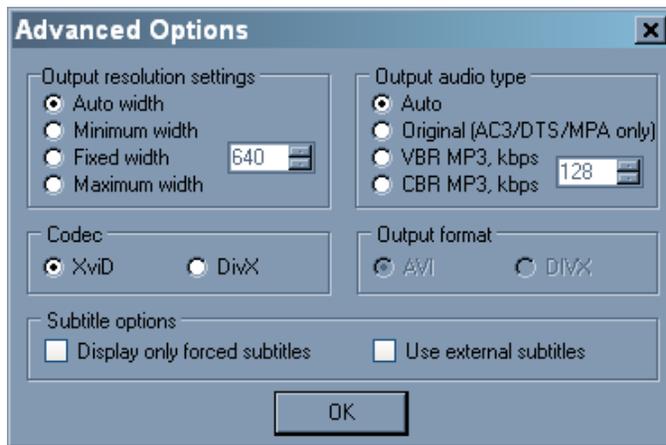
By the way, if you have set up some jobs and are all done, then go ahead and start the encoding. If you just set them up, and then close AutoGK, intending to come back later to begin the encoding, you'll lose all your jobs. AutoGK will start the next time with default settings on the Main Screen and no jobs in the queue.

There have been quite a few questions and problems concerning Quality Mode, so let me try and cover some of them. It's true that you'll lose complete control of file size. The final size can sometimes even become larger than the original vob files (the original DVD). This can occur when the material is hard to compress. The most common hard-to-compress materials are noisy/grainy material, and full-screen material filmed with handheld cameras. Concert DVDs are often like that, and can often result in huge file sizes. Cheaply made films using low-grade film stock are hard to compress. In such cases you might want to lower the percentage to around 50% and/or encode at a lower resolution than the default.

**Advanced Settings.** If this is one of your first tries at this, then you will get an excellent quality backup using the defaults. Once you're feeling a bit more confident, you might want to venture into the Advanced Settings. :-). The Resolution settings will allow you to set a horizontal resolution (Fixed width) or minimum/maximum horizontal resolution. Minimum width means that the movie will not be encoded at a horizontal width lower than what you set. It will try the higher resolutions, but if the compression test results are too low, it will try lower resolutions until it gets to your minimum width, stop there, and encode it at that width (and corresponding height), no matter what the compression test results might suggest. Although AutoGK can make certain adjustments if the quality won't be good for your chosen horizontal resolution and file size, it's very possible that the quality will suffer if you choose a high resolution fixed width and go for 1 CD. The chances of this happening are less if you choose a Minimum width, but it can still happen. If you choose maximum width then AutoGK will try lower resolutions and stop when you desired maximum is reached even if compressibility would allow it to go higher. This might result in undersized final files, so you have to be careful. With time you'll learn the relative compressibility of different movies, but if you change from the default Auto width, you might pay attention to the Compression Test results when they show up in the Log Window. Ordinarily you'll want a result of between 60-80%, and if you get below 50% or so, the quality will suffer noticeably, or if you get above 95% then your resulting AVI may be undersized. In that case you may wish to abort the process and start over with a different Horizontal width, use original audio or use an extra CD.

Here's the Advanced Options screen. Auto Width is usually the best choice. Auto Audio will give you MP3 at 128 ABR (Average Bit Rate, a kind of VBR or Variable Bit Rate) for one CD, unless you change it to higher or lower quality (lower is not recommended). A two or three CD movie will automatically get the best quality AC3 (Dolby Digital) 5.1 or 2.0, depending on what's on the DVD. All of the default choices can be overridden, but make sure you know what you're doing if you do override them. It is, for example, almost impossible to get good video quality for a one CD rip, if you've chosen AC3 Audio, because the AC3 takes up so much room. And if your movie is long, and difficult to compress, even when doing a 2 CD rip, you may want to choose MP3 Audio, rather than the default AC3.

Next is the Codec choice. You have 2 choices, with XviD being the default. There's a link to Doom9's Codec Shootout (comparison) at the bottom of the page, which may or may not help you to decide which to use. XviD 1.x.x is included with the main AutoGK Install package. You'll have to get DivX 5.2.1 from the DivX.com web site (link at bottom). If you're still not sure which to use, if it's any help to you, both writers of this guide prefer XviD. Both codecs will give



good quality results. Both DivX5 and XviD movies will play well on standalone DVD/MPEG4 players. For those of you with an ESS chipset based DVD/MPEG4 player, there's a note earlier in the guide, in the Installation section, about a special installation procedure for you if you ever plan to use the XviD Codec.

If you are wondering what is "Output format" setting and why it is disabled - do not worry at the moment. It was designed for future usage of DivX Media Format that is not available yet.

Important: The Advanced Settings will remain after you close and reopen AutoGK, in case you always make your movies with the same Custom Settings. If you use the Custom Settings for one movie, but then intend to do the next one with the Defaults on the main screen (which are reset every time), DO NOT FORGET to also reset the Custom Settings to Auto. You may be unpleasantly surprised, if you next wanted to make a high resolution .avi, to have it come out with a lower resolution because of a setting from a previous movie.

**Preview.** This will take a few minutes to set up (7-15 maybe, for a full movie, and a few minutes longer if you want subtitles). It has to create a project file using DGIndex, and maybe Subtitles using VobSub. It will then play the movie. This isn't really a necessary step, unless you just want to see what it does, or check to see if the Subtitles are displaying correctly. If you are testing out different Sub choices, the indexing of a movie via DGIndex happens only once, and after that it's quicker and easier to switch Subs (although VobSub will still be run for every new subtitle choice). When checking out the subtitles, don't be alarmed to see them being displayed twice as "double subs". One is the subs as they'll be burned into the movie, and the other is the subs being displayed externally by Direct VobSub. After the encoding is complete, they'll be fine.



The Preview will play the cropped and resized movie in WMP 6.4 for you. It should look fairly similar to the way your completed .avi (encoded movie) will appear (but resolution might not be the same). If you keep the default Auto Width, the Horizontal Resolution may or may not be different from what the Preview displays. You can scroll around and have a look, and even play it Full Screen. If you have elected to include subtitles, it will also display them, but it won't play any audio.

It is recommended that if you are going to have subtitles in your movie, that you test them with the Preview before encoding. If you choose to display different Subtitle Streams with the Preview, the movie won't be re-indexed again, which will save some time. If you get the wrong Subs, or particularly if you're hunting for Forced Subs, go back and try another one, and so on, until you find what you're looking for. When choosing the default burned in subs, and then testing them in the Preview, you'll see "double subs". You can ignore that, and be sure that the subs will be embedded in the movie correctly.

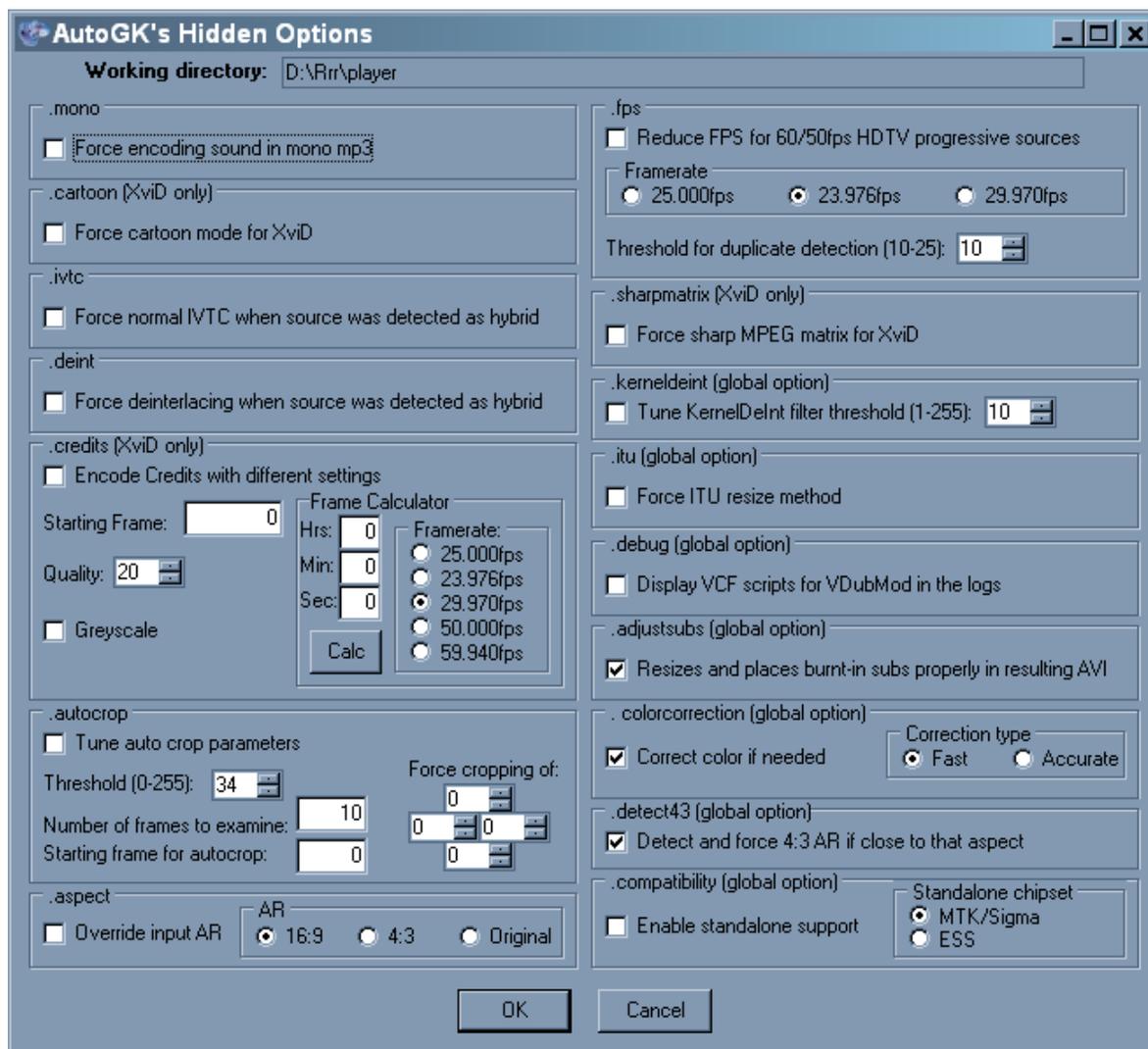


If you have defined a Horizontal Resolution, then it will be played at that Resolution (512x384 for the one on the left). The movie above is Wide Screen, and the one on the left is Full Screen. The movie above will play on a monitor or standard sized 4:3 Television with black bars added above and below. It will play on a Wide Screen 16:9 Television with less black bars above and below. The cartoon on the left will fill the screen on a computer monitor or standard 4:3 Television set, but is meant to play on a Wide Screen 16:9 Television with black bars on the left and right sides.

**Encoding.** After you've added your movie(s) to the Job queue, just hit the Start button and wait. With slower computers it's a long process, and you may want to set it up to work overnight or while you're at work or in class. Again, if you want the computer to shut down automatically when done, check the box. Hitting the Abort Button will cause the program to ask if you really want to halt the process, and then aborts the rest of the job. But if you do so, you'll have to start all over again later (except for the decrypting step). While the encoding is going on you might want to do some other work on the computer, and you'll probably find that your computer has slowed to a crawl. As a temporary fix you can do restore VDubMod from the taskbar and show its status window (Dub In progress -> Show Status Window). There you can change processing thread priority. (Note if you have a look at VDubMod process in the task manager you will always see it set on "Idle" priority. This might slow encoding down on some configurations unless you set processing thread priority to something really high in VDubMod. Keep in mind that VDubMod thread priority setting can be set in its preferences and will affect all consequent runs).

## Hidden Options

There are quite a few hidden options in AutoGK these days that can be accessed via CTRL-F9 shortcut. Some of the options only work with XviD 1.0+ versions (i.e. included with AutoGK 1.25+). Most of the options are per-input settings, i.e. you can set up different settings for different movies. However there are a few that are global, so that they affect all encodings done by AutoGK. Note that you have to put you input files into separate directories if they require different hidden options as AutoGK can only set hidden options for a particular directory, not file.



Lets go through all the options one by one:

- If you're a classic film fan, then **Mono MP3 Audio** is very useful. The original audio for old films was mono, but often DVDs of old films will come with a dual mono AC3, and when converted to MP3, it'll retain the two channels. By converting the audio to one channel mono you can free up lots of space (sometimes 50 MB or more) to help improve the quality of the video. Even if the AC3 is single channel, if you convert it to MP3, the default will be two channels of audio, and, again,

you'll want to choose the Mono MP3 option. If you do go for Mono audio (NOT recommended when the movie was originally 2 or more channels), then AutoGK takes the bitrate from Advanced Settings and divides it by 2 to produce output mono bitrate.

- XviD's **Cartoon Mode**, in the words of XviD developer and compiler Koepe, "enables some mechanism in the motion estimation which drops (instead of encoding them) more macro blocks. The result is a more stable, a little less detailed image. Exactly what you need for cartoons like Futurama or the Simpsons." That is to say, it can improve the quality of American style cartoons. I don't think that I'd recommend it for the more detailed Japanese anime. **(ONLY XVID)**

- "**Force Normal IVTC**" is something you'd better understand before using. Beginners can ignore it. Sometimes (rarely) AutoGK's Analysis step flubs on diagnosing the video content (and resulting AVI may be jerky or shutters a lot), and you might get better results overriding the decision that it's a hybrid, and go for a normal IVTC instead. Same goes for "**Force Deinterlace**" option (which can be a second choice when dealing with hybrid material)

- end "**Credits**" is one the most useful of the bunch. If you can cut the size of the end credits, you can use those freed-up bits to improve the quality of the movie itself. So, you check the box and fill in the time the credits start (inside the Frame Calc. box) or fill in the frame number at which they start, and set the quality percentage. This is most useful when you have fixed or scrolling white on black end credits (in which case you also check the Greyscale mode box). One way to find the frame number at which they start is to run the Preview. Then after AutoGK has created a .d2v file, open that in Gordian Knot and scroll the picture to where the end credits start, and then type that frame number into the box. A 20% figure will allow you to read the end credits, but they will be kind of messed up, with trailing milky white stuff coming from the white-on-black scrolling credits. If that doesn't bother you, then 20% is a good percentage. If you want the size reduced, but without much quality degradation, then you might select 40 or 50%. If the credits are the kind with video (like the bloopers at the end of Jackie Chan's movies), or even the kind with some pictures as the credits roll, then you may not wish to use End Credits Compression at all. But with movies with long credits, it's not uncommon to save 40 or 50 MB by using the compression feature. That will allow considerable improvement (including a higher resolution) to the movie. To calculate starting frame of the credits fill in the time that the end credits start, choose source frame rate (for PAL DVDs its 25fps, for NTSC its 29.97fps ), hit 'Calc', and the correct frame number for the credits start will be filled in. One way to get that time is to play the DVD in your computer, and skip to the chapter where the end credits start. **(ONLY XVID)**

- Sometimes auto crop used with default parameters by AutoGK cannot totally remove black bars or removes too much of a movie material. In this case "**Tune auto crop parameters**" is very handy. Threshold defines how sensitive auto crop will be: the higher the value the more cropping will be done. To completely disable audio crop you can set threshold to 0. "Number of frames to examine" is useful parameter to change if movie is a mixture of full screen/wide screen shots, so by selecting different frames that auto crop examines you can improve cropping process. "Starting frame" can help auto crop in situation when you have a full screen logo as a part of widescreen movie, in which case autocrop might decide that the whole source is full screen. By selecting a different starting frames you force auto crop not to examine irrelevant starting movie sequence. "Force cropping" option allows you to crop additional pixels after autocrop operation (if you find that you need to always crop several more pixels you can use this option). If you disable autocrop with threshold 0 then "force cropping" option becomes fully manual crop. Remember always to check how movie looks like after you set new auto crop parameters using Preview function of AutoGK.

- "**Aspect ratio**" is an option to override AR setting that comes out of DGIndex (indexing tool for MPEG2 files used by AutoGK). If source is misdetected as 4:3 or 16:9 then you have a choice of manually setting correct AR.

- "**Reduce FPS**" option is only useful for HDTV 50/60fps sources. By default AutoGK tries to restore 24fps FILM material from 60fps sources and if that is impossible then it leaves fps at 60 (50 fps sources are always left at that fps at the moment). So user can explicitly try and set lower fps. (Note: if you have a pure progressive material you may end up with shuttering video in the end when reducing fps. Use it only if you know what you're doing)

- "**Force Sharp Matrix**" option ensures that AutoGK will not use soft matrix no matter what. Its most useful when doing 700Mb or less encodes when ordinarily AutoGK won't use sharp matrix at all **(ONLY XVID)**

- **KernelDeInt** filter is a filter performing deinterlacing in AutoGK. Its threshold parameter allows you to control sensitivity of the filter in detection of motion areas (as static areas are ignored by the filter). This is very advanced settings and it should be used only when you get a lot of artifacts when encoding interlaced material . Please refer to the documentation of the filter for further information.

- **ITU-R BT.601 Standard** is an official resizing method for DVDs in hardware, however most software DVD players (like PowerDVD or WinDVD) do not use it which results in height that is ~2.5% stretched. Different sources (even DVDs) can be mastered with or without ITU standard which means that there is no universal setting that will work in all cases. Check

out the forum and its discussions on the subject. Simple user guide for this option is: if you feel like your encodes come out a little bit stretched vertically then turn this option on, otherwise leave it off.

- **"Display VCF scripts"** option is a debug-only option and for clarity of the logs it should be switched off most of the time.

- **"Adjust Subs"** option is very useful option and should be turned on most of the time if you're burning subtitles into resulting AVI. It places subs at original position found on DVD instead of squashed them vertically and moving a bit up (I'm sure everyone is familiar with these problems). The only drawback is that if original subs were in the upper part of the frame (during for instance opening credits) then they will probably be lost (and that is the reason this option is not enabled by default). Another problematic sources can be 2.35 AR sources where subs appear in the black bar below main video - in this case they will be cut off by this setting as well. In all other cases subs from lower part of the video frame should be displayed properly when using this option.

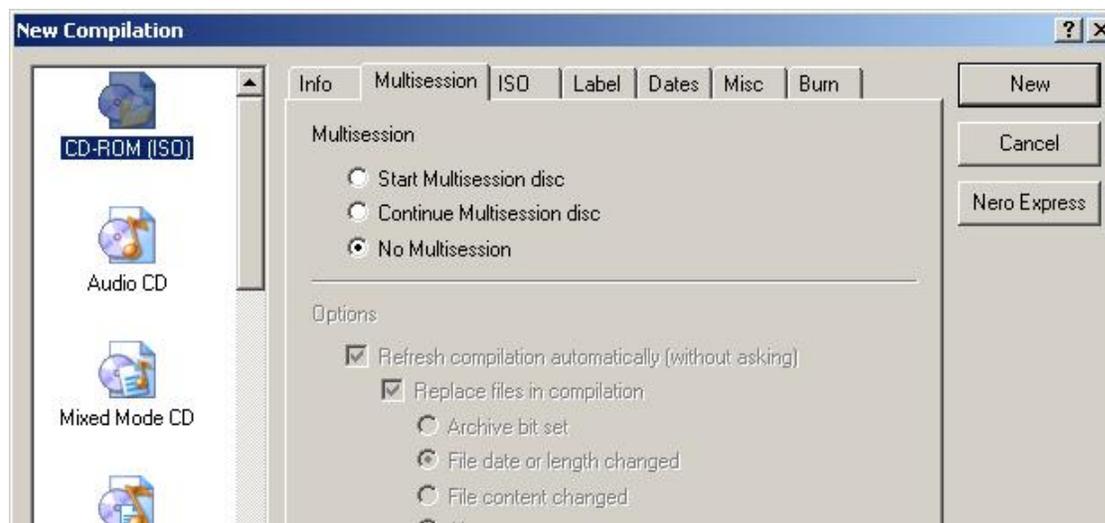
- **"Color correction"** option allows you to slightly change color gamut closer to what the source actually contains (gamut often is changed automatically when doing MPEG2 -> MPEG4 conversion because of the tool involved, i.e. avisynth). You may notice that sometimes your XviD/DivX encodes are looking rather dark comparing to the original input source. In those cases usage of this option will help making it a little bit lighter. Not every MPEG2 input source require this correction and this option doesn't force it but rather switches ON the check if color correction is needed and applied. If color correction is needed then the encoding process can be 10-20% slower than one without it.

- **"Detect 4:3 Aspect ratio and force it"** option checks if AR is between 1.25 and 1.4 and if yes then crops video appropriately to get perfect 4:3 ratio (so that you won't get black bars when watching on 4:3 TV).

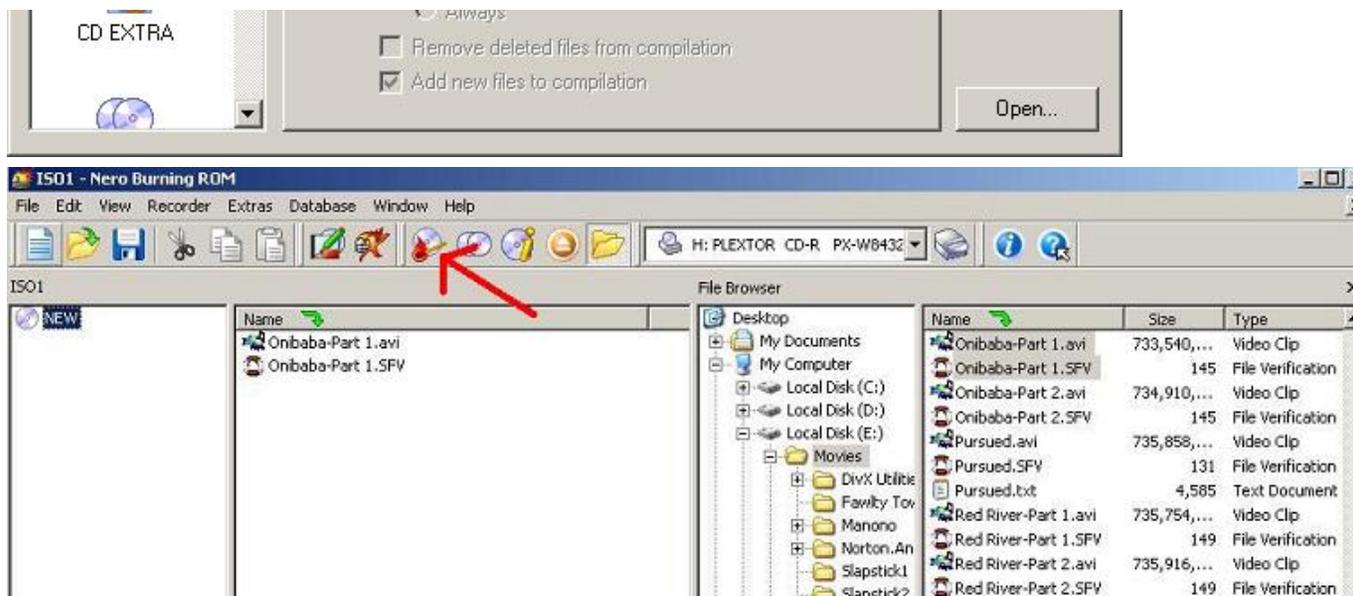
- **"Standalone compatibility"** option was discussed in the [installation section](#).

## Burning To Disk

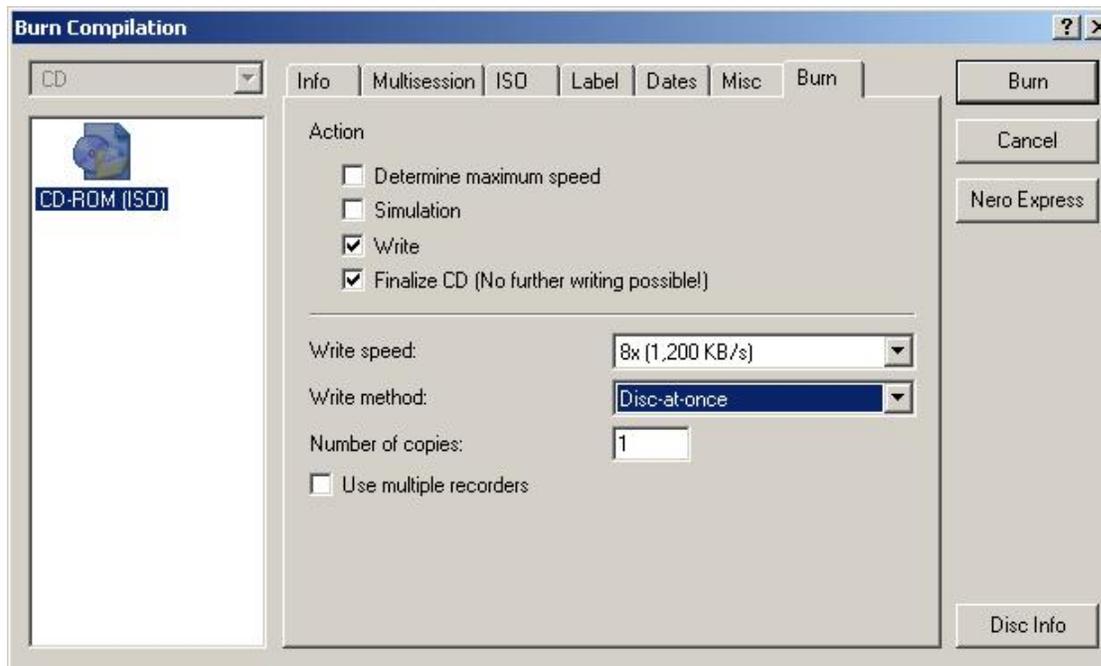
If you've never burned videos to CD-R, then pay attention. Unless you use a Custom Size, when done, AutoGK will give you the movie done for 1 CD (700 MB), 2 CDs (1400 MB) or 3 CDs (2100 MB) already split and ready to put on CD-R. For that you'll need 700 MB or 80 minute CDRs. If you have larger or smaller sized blank CDRs, then you'll probably want to use a Custom Size, and you may have to split them yourself, since AutoGK doesn't split Custom Sized movies. If you've only burned music CDs before, then there are some different things you'll have to learn. Avi's are Data and not Audio. So you'll have to set your program for that. If you go by the size that Windows Explorer shows, then you might think you've been handed an oversized .avi that won't fit onto your blank CD-R. But if it says 717,000 KB in Windows, that's really a 700 MB file. To convert KB to MB, divide by 1024.  $717,000/1024=700.195$  MB, and it'll fit just fine. There are many burning programs, and although many people's computers come with Easy CD Creator, most people much prefer to use Nero to burn movies (link at bottom). So we'll teach you to use Nero.



Here in this first screen make sure that CD-ROM (ISO) on the left is highlighted. Tick No Multisession, unless you want to add more videos later (like if you're burning an episode, and intend to add one or two more later on). Over on the right side, hit New.



Then a new screen will pop up. Drag the movie from over on the right side into the window on the left side. The arrow is pointing to the picture of the CD with a lit match under it. Hit that button to go to the next stage. Different versions of Nero have different pictures for the next stage, but if you hold your mouse over it, it should say "Burns the current compilation", or "Opens the CD Write dialog" or something like that. The versions I've seen all have some fire in the picture.



Unless you're doing this for the first time and want to test your CD-RW before burning, make sure that just Write and Finalize CD are checked. If you have a fast burner (48x or 52x), you may wish to set it for 32x or 40x to insure a better burn. I have had problems sometimes burning at max speed with my 48x burner. You can set it to Disc-at-once, then hit Burn and wait a few minutes.

**CONCLUSION**

With any luck, after a while (maybe too long, if you're anxious to see how your rip looks) you'll be able to see the results of your efforts. You can play the movies on your computer, or pop the CDs into your DVD/MPEG4 player and enjoy them. This way you can keep your prized DVDs in mint condition, or keep the kids' grubby little paws off of them. :-) If for some reason the audio and/or video doesn't play on your computer, or doesn't play well, then go to the Links section below and get the filters you need. You may find the whole process addictive and want to do more and more backups. You may find yourself springing for the most powerful computer available, just so you can get it done faster. You should be aware that not every DVD can be backed up with good quality with this program. Sometimes the source DVDs aren't very good. Garbage in/garbage out, as they say. Other movies, particularly older ones, are grainy and very difficult to compress to 1, or even 2 CDs. With AutoGK you don't have access to the full range of filters that may help compress them better. Even more modern movies, such as Saving Private Ryan or The Abyss, are notoriously difficult to compress. In addition, there are many badly mastered DVDs out there which may give the program problems. But if you stick with DVDs from the major studios, you should be OK. If you do wish to back up some of the more difficult DVDs around, or just want more freedom to experiment and tweak, then you might want to try the full, more configurable, but much more complex, Gordian Knot program (link at bottom). AutoGK has purposely been kept as simple as possible so that beginners can have success right from the start, without the frustrations that go along with having to learn a number of complex processes that accompany other programs, whether all-in-one front end solutions, or the individual programs themselves. It's simple to use, but very powerful under the hood, so to speak. It contains a number of programming breakthroughs and innovations not found in any other program to date. In addition, if you have any questions or problems, you can visit the Gordian Knot Development Forum at [www.doom9.org](http://www.doom9.org) (link at bottom). But you'll have to wait 5 days from the time you register until the time you can post a question. You can use that time to good advantage, by reading the guides, browsing the forums, and exploring the wealth of information available on that site. If you do have a question about a particular encoding you did, be sure and save and post the log file (MovieName\_agk.log) along with your question. We hope you'll enjoy using Auto Gordian Knot. Thanks for giving it a try. Best wishes, and happy encoding.

**Acknowledgements** go to TheWEF for the countless man-hours he put into the development of the original Gordian Knot. Also we thank len0x for continuing the work of TheWEF, keeping GordianKnot the best all-in-one front end for .avi encoding, and for the development of AutoGK. And last, but by no means least, we'd like to thank Doom9 for his wonderful site, for his support of the continuing development of GKnot and AutoGK, and for providing forums for their discussion and guides for their use.

**Congratulations** go out to Tuning from the Doom9 Forums for coming up with the name of Auto Gordian Knot, and for winning the "Name That Program" poll. It's a short, catchy and accurate name that reflects what AutoGK does, and how it's different in concept from the original Gordian Knot.

## Useful Links

### Downloads, Filters, And Codecs

<http://www.divx.com/> DivX.Com site where you can get the DivX Codec.

<http://www.doom9.org/software.htm> I assume you can already play MP3. But if not, then get the Audio Filters (in the Filters Section).

<http://www.doom9.org/software.htm> If you can't play AC3 Audio, get the AC3 Filter. It's in the Filters-Show All Filters Section. If the audio is too soft, go into Configuration and change the Preset to Loud (lower left).

<http://www.doom9.org/software.htm> If you want to give it a try, get ffdshow, also in the Filters Section. This filter can play XviD and many other types of .avi videos. It's highly configurable.

<http://www.ahead.de/us/index.html> The Nero web site. You can buy it, or download a demo version.

### Auto Gordian Knot and Gordian Knot Links

<http://www.autogk.me.uk/> The main Auto Gordian Knot Web Site.

<http://gordianknot.sourceforge.net/> The main Gordian Knot Web Site.

<http://forum.doom9.org/forumdisplay.php?s=&forumid=28> The Gordian Knot Forum. Discuss stable versions of AutoGK, use this forum to post questions about it, as well as about Gordian Knot.

<http://forum.doom9.org/forumdisplay.php?s=&forumid=70> To learn more about AutoGK, to get Beta updates, and to post questions about them, please go to the Gordian Knot development forum.

<http://www.doom9.org/autogk.htm> The Doom9 AutoGK Guide. Mine is wordy. His is more direct and to the point.

<http://forum.doom9.org/showthread.php?s=&threadid=72679> The official AutoGK FAQ.

### Doom9 Links

<http://www.doom9.org/codecs-203-1.htm> Link to Doom9's most recent Codec Comparison.  
<http://www.doom9.org/> The best place to learn about DVD Backups. It has Guides, Articles, Software Downloads, Forums, and the Daily (or nearly Daily) News.  
<http://www.doom9.org/glossary.htm> A glossary of terms.  
<http://www.doom9.org/index.html?/dvd-basics.htm> DVD Basics for beginners. If you want to learn, you'll want to read these articles.  
<http://www.doom9.org/ivtc-tut.htm> Want to learn about some of the intricacies of video encoding; things that AutoGK spares you from having to learn? Here's one place.

#### Other DVD Links

<http://www.dvddemystified.com/dvdfaq.html> Want to learn about all things DVD? Here's the Granddaddy of all DVD FAQs.  
<http://www.cs.tut.fi/~leopold/Ld/FilmToVideo/> How Film Is Transferred to Video.  
<http://www.dvdweb.co.uk/information/anamorphic.htm> What does "Anamorphic 16:9" mean, and why is it better, particularly now that the age of Widescreen HDTV has arrived?  
<http://www.widescreen.org/widescreen.shtml> For those of you that prefer Full Screen over Wide Screen, I hope this will convince you otherwise.

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Page Generation: 0.0245 Seconds and 31 DB Queries in 0.0300 Seconds  
Interactive software released under [GNU GPL 2, Code Credits](#)



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I'm running XP/  
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**Results**  
**Polls**

Votes **34345**

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Backed out completely to XviD included in version 2.40 which seems the most stable. Change log:

- XviD build downgraded to CVS 08/12/06 as in 2.40
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Posted by [len0x](#) on Sunday, 11 November 2007 (08:12:10) EST (43798 reads)  
([Read More...](#) | Score: 4.35)

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Thank you.

Posted by [len0x](#) on Thursday, 02 December 2004 (12:34:33) EST (8821 reads)  
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- Hourly 729.27
- Daily 17,502.4
- Monthly 532,371
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### Server Time

- Time 23:40:56
- Date 04 Apr 2008
- Timezone -0400

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Looks like new XviD build is broken in respect of DXN profiles, so to get ESS option working I've downgraded it. Change log:

- fixed external subs problem
- add command line option to start AutoGK in multi-instance mode: "--multi"
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Posted by [len0x](#) on Saturday, 06 October 2007 (16:21:42) EDT (13967 reads)  
([Read More...](#) | Score: 5)

### **Version 2.46 beta is out**

Quick update that should solve popup issue with DGIndex along with a few small enhancements. Change log:

- DGMpgDec updated to version 1.5.0 beta 2 to prevent popups during encode
- included MPC 6.4.9.0 that does preview now
- compiled with new compiler/libraries
- added option to go to sleep (stand by) mode after encode
- colormatrix filter is updated to version 2.2



Posted by [len0x](#) on Wednesday, 26 September 2007 (16:42:14) EDT (6053 reads)  
([Read More...](#) | Score: 4.8)

### **Version 2.45 is out!**

I know, I know, its been ages, but having found just bit of time to update the tools I want to get this out now (although its been compiled a while back). Change log:

- XviD build updated to CVS 25/07/07
- DGMpgDec updated to version 1.4.9
- avisynth updated to version 2.5.7
- filters updated to latest versions
- colormatrix uses multiple threads on multiple CPUs
- added hidden option to hide DGIndex



Posted by [len0x](#) on Saturday, 22 September 2007 (07:53:49) EDT (19348 reads)  
([Read More...](#) | Score: 4.86)

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Happy Holidays everyone!



Posted by [len0x](#) on Monday, 18 December 2006 (13:15:12) EST (76977 reads)  
([Read More...](#) | Score: 4.8)

### **Version 2.37 beta is out**

Updating the tools in preparation for a stable release. Change log:

- fixed preview function for some locale settings
- XviD build updated to CVS 03/11/06
- filters ColorMatrix, VSFilter, Decomb and LeakKernelDeInt are updated



Posted by [len0x](#) on Sunday, 05 November 2006 (09:38:03) EST (15857 reads)  
([Read More...](#) | Score: 3.5)

### **Version 2.36 beta is out**

Just one more fix in vStrip.dll to help parse some IFOs:

- fixed vStrip.dll again for some IFO files



Posted by [len0x](#) on Sunday, 22 October 2006 (15:48:45) EDT (6593 reads)  
([Read More...](#) | Score: 4.5)

### **Version 2.35 beta is out**

Re-encoding of AVI sources accidentally got broken in the previous version, so here is an update. Change log:

- fixed re-encoding of AVI sources with MP3 sound
- preview now correctly adjusts audio delay after demuxing
- LAME updated to version 3.97



Posted by [len0x](#) on Sunday, 15 October 2006 (14:48:12) EDT (5619 reads)  
([Read More...](#) | Score: 3.33)

### **Version 2.34 beta is out**

Change log:

- fixed crash in vstrip.dll when opening some IFOs
- added detection of multiple logical CPUs to be set as number of threads for XviD encoder
- MediaInfo updated to version 0.7.3.1



Posted by [len0x](#) on Sunday, 08 October 2006 (13:40:04) EDT (5745 reads)  
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- XviD build updated to CVS 03/11/06
- filters ColorMatrix, VSFilter, Decomb and LeakKernelDeInt are updated



Posted by [len0x](#) on Sunday, 05 November 2006 (09:38:03) EST (15857 reads)  
([Read More...](#) | Score: 3.5)

### Version 2.36 beta is out

Just one more fix in vStrip.dll to help parse some IFOs:

- fixed vStrip.dll again for some IFO files



Posted by [len0x](#) on Sunday, 22 October 2006 (15:48:45) EDT (6593 reads)  
([Read More...](#) | Score: 4.5)

### Version 2.35 beta is out

Re-encoding of AVI sources accidentally got broken in the previous version, so here is an update. Change log:

- fixed re-encoding of AVI sources with MP3 sound
- preview now correctly adjusts audio delay after demuxing
- LAME updated to version 3.97



Posted by [len0x](#) on Sunday, 15 October 2006 (14:48:12) EDT (5619 reads)  
([Read More...](#) | Score: 3.33)

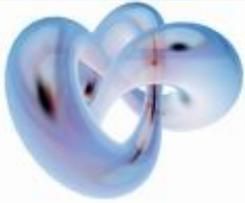
### Version 2.34 beta is out

Change log:

- fixed crash in vstrip.dll when opening some IFOs
- added detection of multiple logical CPUs to be set as number of threads for XviD encoder
- MediaInfo updated to version 0.7.3.1



Posted by [len0x](#) on Sunday, 08 October 2006 (13:40:04) EDT (5745 reads)  
([Read More...](#) | Score: 5)



# Auto Gordian Knot

## Contents

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- [Discussions](#)
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## Survey

### Have you switched to Vista yet?

Yes, fully!  
 I'm running XP/  
 Vista in parallel.  
 No, but really want  
 to.  
 No and not planning  
 to.

[Results](#)

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Votes **34345**

## Ad

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## Ads

## Traffic Report

The public viewed  
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### Total Hits

- New Today **20,853**
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### Average Hits

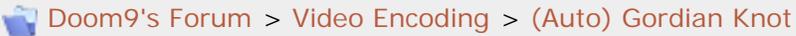
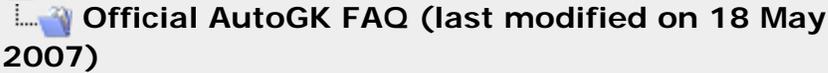
- Hourly 729.27
- Daily 17,502.4
- Monthly 532,371
- Yearly 6,388,455

### Server Time

- Time 23:41:09
- Date 04 Apr 2008
- Timezone -0400

Welcome to **Doom9's Forum**, THE in-place to be for everyone interested in DVD conversion.

Before you start posting please read the **forum rules**. By posting to this forum you agree to abide by the rules.

 		User Name <input type="text"/> Remember Me? <input type="checkbox"/>
		Password <input type="password"/>
<a href="#">Register</a>	<a href="#">FAQ</a>	<a href="#">Search</a> <a href="#">Today's Posts</a> <a href="#">Mark Forums Read</a>



	<a href="#">Thread Tools</a>	<a href="#">Display Modes</a>
--	------------------------------	-------------------------------

14th March 2004, 20:24

#1 | [Link](#)

len0x

I'm afraid we've to stop



Join Date: Mar 2003  
Location: Amongst mad people  
Posts: 5,288

### Official AutoGK FAQ (last modified on 18 May 2007)

**DEVELOPMENT HAS OFFICIALLY CEASED.**

**BUG REPORTS MAY BE SUBMITTED VIA THE **MAIN THREAD**,  
THOUGH THEY MAY NOT BE ACTED UPON.**

**REQUESTS FOR NEW FEATURES OR FUNCTIONS WILL BE  
IGNORED.**

=====  
**OFFICIAL AUTOGK FAQ**

=====  
**0. Downloads**

Main AutoGK download mirrors are protected from direct linking via "referrers" feature, so if you're getting an error saying something like "You don't have permission to access XXX..." make sure you enable referrers propagation in you browser/firewall/download manager.

=====  
**1. Input to AutoGK**

AutoGK accepts input files with the following extensions: MPG, MPEG, VOB, VRO, M2V, DAT, IFO, TS, TP, TRP, M2T, AVI. In terms of formats it supports mpeg1, mpeg2, transport streams, vobs from DVDs and practically any codec in AVI file. For restriction on AVI input see question 5.12. One special mode that AutoGK has starting from version 2.15 is IFO file input that replaced "DVD mode" from older version. Now all you have to do is to point AutoGK to IFO file and it will pick up vobs that has the same VTS number (i.e. VTS\_???.vob files, so you can't point it to global video\_ts.ifo file).

=====  
**2. Audio**

2.1 [obsolete]

2.2 [obsolete]

2.3 How is first audio encoded in Auto mode?

- it's VBR 128Kbps if target size is 700Mb or less, in all others cases it's original AC3/DTS/MPA track. LPCM tracks are always converted to VBR MP3: 128kbps for 1CD or less, 192kbps for more that 1CD.

2.4 How is second audio encoded?

- in Auto mode it's VBR 128Kbps, in all others it's the same as first one.

2.5 which VBR mode is used for encoding?

- it's ABR via "--alt-preset" option of LAME

2.6 [obsolete]

2.7 AutoGK says it cannot find audio

- first check if audio was demuxed in agk\_tmp dir, if yes then most likely audio encoding is failed: check azid/normalize/lame steps on input audio individually to find the problem.

2.8 Can AutoGK perform mono MP3 encoding?

- Yes. If it finds that only 1 channel is used from stream info file then audio source is treated as mono automatically, however you can force mono encoding for any track by using ".mono" hidden option (CTRL-F9). AutoGK automatically divides given bitrate by two for mono encoding, so you don't have to do that explicitly.

2.9 Can AutoGK perform DTS transcoding/muxing?

- Starting with version 1.78, yes. If you'd like to keep DTS sound in AVI (its pretty large even compared to AC3) you'll need AC3Filter 1.01RC5 or latest ffdshow playback filters to be able to decode audio.

2.10 Can AutoGK just mux mp2(mpa) tracks from MPEG video files?

- Yes, starting with version 2.12

2.11 [Obsolete]

2.12 I can't hear audio when playing final AVI. Why?

- if its AC3/DTS sound track then you need latest AC3Filter or ffdshow to decode it. AutoGK installer doesn't have those filters.

2.13 Audio level of resulting AVI is too low. What can I do?

- if its MP3 sound track then there is nothing more you can do as considerable level of boosting is already applied during encoding process. If its AC3/DTS then make sure you maximized boosting inside AC3Filter during playback (as AC3/DTS tracks are original DVD tracks and cannot be boosted).

=====

### **3. Subtitles**

3.1 Why is WinRAR needed for external subtitles?

- To make them smaller they have to be compressed. The only supported by VobSub archive is RAR. No other archive programs apart from WinRAR can compress into RAR format.

3.2 I can't see second subtitle while second audio option is there. Why?  
- external subtitle option in the advanced options is not set

3.3 If movie is automatically split into several parts will external subtitles be split as well?  
- yes

3.4 Subtitles are out of synch/absent. What's wrong?  
- Angle and PGC file naming probably was not used AutoGK has not idea about what was ripped. Of course sometimes DVD can be badly mastered, in which case you have to manually deal with them. Also subs will not be shown properly if you selected only several chapters/cells from PGC as VobSub only works with the whole vobset. As of version 2.12 AutoGK presents a choice of PGCs/Angles to the user upon parsing of IFO file - make sure to select the correct ones. If you don't use subs then selection is not used and you don't have to select the correct PGC/ Angle.

3.5 [obsolete]

3.6 When doing a preview of a movie I see double subs. What's wrong?  
- nothing is wrong and movie will turn up ok. It's just internal and external subs are being displayed at the same time.

3.7 Where is "all subtitles" option?  
- make sure "external subs" option is selected in advanced options (you need to reload input source to see "all subs" option after you enabled external subs)

3.8 I have my own text/vobsub subs for the movie. Can I burn them into AVI?  
- Yes, CTRL-F8

=====

#### **4. Video/Codec**

4.1 Which resolution is used in different output size modes?  
- for Maximum Quality and Quality-based encoding it's the source width (unless custom settings are used in advanced options). For Target Size mode - resolution will depend on compressibility of the source.

4.2 Can I adjust codec settings within or outside of AutoGK?  
- no, it is believed that AutoGK uses best speed/quality settings

4.3 Which codecs are supported?  
- At the moment the only supported codecs are: XviD 1.1.x+, DivX 5.2.1 Pro and DivX 6.0.3+ (as of 2.25). If you're using MTK/Sigma compatibility option then you HAVE to use XviD build supplied with AutoGK, otherwise you may use potentially any build of XviD 1.x. (alternatively you can get xvidvfw.dll from Celtic\_Druid to use with latest XviD build [here](#) )

4.4 Can you I use cartoon mode of XviD 1.x ?  
- Yes, use ".cartoon" hidden option (CTRL-F9).

4.5 Can I use DivX non-pro free edition?

- No, as AutoGK requires b-frames feature to be enabled in the codec

4.6 Can I manually crop video?

- Sort of. Starting with version 1.86 its possible via ".autocrop" hidden option (CTRL-F9). Just set threshold to 0 and then use "Force cropping of" option.

4.7 If I don't know which chipset my standalone uses - what is the safest option to choose?

- ESS option is the most compatible one

=====

## 5. General

5.1 Do you support Hyperthreaded/dual CPUs ?

- yes, AutoGK has no problems running on those CPUs (although encoding is NOT done by AutoGK directly, so the whole process may not run faster on such CPUs - codecs have to support that natively).

5.2. I have an old PC and AutoGK fails to work/start on it. Is there anything that can be done about it?

- AutoGK requires MMX-enabled CPU, nothing can be done to remove that requirement.

5.3 Will you make a CLI version of AutoGK?

- no

5.4 What kind of input sources does AutoGK support?

- mpeg2 sources (including vobs and transport streams), AVI sources (starting with version 2.00, providing that your OS can decode them via DShow), mpeg1 sources (starting with version 2.12).

5.5 Will you support OGM/MKV/MP4?

- may be at some point in the future. For sure if one of the formats gets accepted by hardware manufactures.

5.6 Can I edit a job once it is in the queue ?

- No. You can easily delete and recreate it though.

5.7 How can I set hidden options?

- CTRL-F9 (starting with version 1.86)

5.8 What do checkboxes do in the job queue?

- if item is not checked encoder will skip to the next item in the queue (its dynamic and status of checkboxes is verified after the end of each job).

5.9 What is the difference between DVD and File Mode (and where is DVD mode anyway)?

- A of version 2.15 there is no DVD mode anymore. If you select IFO file then it will be parsed and choice of audio/subs will be presented for selected PGC/Angle. If you just select VOB files then no subs choice will be available and only audio type and track number will be presented.

5.10 [obsolete]

5.11 Is it possible to show duration of a movie selected from IFO file?

- yes, started with version 2.12

#### 5.12 What are limitations/features of AVI input mode?

- your OS has to be able to decode input AVI via Dshow (note sometimes decoder, for instance ffdshow, has problems with certain type of video, so you have to change it. See here for example problem: <http://forum.doom9.org/showthread.php?t=92047>)

- no denoising is done for AVI mode except for DV sources

- no cropping is done for AVI mode apart from the one needed to keep AR (if you need it then enable it via hidden options)

- DV sources are detected via "dv" string in 4cc and appropriate AR resizing is performed (AR is 1.095 or 0.909). Original AR option won't work for such sources.

- only DV type 2 files are supported

- Analysis step is only performed for DV source (for deinterlacing)

- BFF is assumed for DV sources

- input audio can be PCM(always encoded)/MPA(kept/encoded)/MP3 (always kept)/AC3(encoded/kept)/DTS(encoded/kept)

- if your DV source is 16:9 then you need to enable this AR in hidden options as AutoGK can't detect that.

- mp3 re-encoding is not possible due to LAME crashing on most mp3 sources

- sometimes LAME has issues with 11KHz PCM input audio, so it might need to be processed manually.

=====

### 6. Encoding process

#### 6.1 [obsolete]

6.2 When splitting into 2/3CDs I get a small (2-4Mb) additional chunk.

- it happens because key frame was found too distant from 700Mb border and AutoGK cannot split dynamically into 701/702 Mb chunks. This happens sometimes. May be in the future I'll make more intelligent split procedure.

**6.3 I used to use old XviD and now I switched to XviD 1.0.x. Since then I always have very undersized/oversized files. What's the problem?**

**- old XviD has to be uninstalled properly, i.e. just installing new 1.0.x over it is not a proper way. Try uninstalling old one, then reinstalling new one.**

6.4 When analysing source AutoGK found it to be hybrid and resulting AVI was jerky. Is there anything that can be done?

- if its really hybrid then AutoGK did it best. If it was detected falsely as hybrid you can force normal IVTC procedure by using ".ivtc" hidden option (CTRL-F9). Alternatively if the source was actually pure NTSC then you can force deinterlacing process via ".deinterlace" hidden option.

6.5 If I know exactly frame number for end credits start can I supply this info to AutoGK ?

- if you are using XviD 1.x you can use ".credits" hidden option (CTRL-F9). Note that starting frame is coming from input source (i.e. before IVTC etc) and AutoGK automatically adjust it if FPS changing operation is performed during encoding.

6.6 How can I select only subset of input VOBs? (i.e. remove credits for instance)

- There is no direct way of doing that but this can be done:

- 1) start the job
- 2) when DGIndex launched restore it from taskbar and hit Esc
- 3) go to agk\_tmp folder (in output dir) and delete demuxed audio file(s) (i.e. AC3/MPA/WAV)
- 4) select subset you need
- 5) "save as" and overwrite partially created D2V file
- 6) encoding will proceed as usual

6.7 I got exception "Open AVI filed" right after comp test.

- have a look here: <http://forum.doom9.org/showthread.php?s=&threadid=76335> (short answer - you probably have to run /autogk/vdubmod/aviproxy/proxyoff.reg file)

6.8 I got exception "Range check error".

- have a look here: <http://forum.doom9.org/showthread.php?s=&threadid=75949>

6.9 Why there is no "pause" button?

- Its not possible to pause execution of external programs as AutoGK just launches lots of external applications.

6.10 My DVD looks to be mastered incorrectly (4:3 vs 16:9). Can I change AR somehow in AutoGK?

- Yes, see hidden options via CTRL-F9

6.11 I want AutoGK to not split 1400/2100Mb files.

- make sure you select custom size like 1399 or 1401 and not exact 1400Mb

6.12 How can I add more than one file to encode in File mode?

- just put them in one directory and name them \*\_1.\*; \*\_2.\* etc. They will be picked up automatically. This only works for mpeg1, mpeg2 and vob files but not for AVI files.

6.13 During analysis step when looking for hybrid thresholds suddenly the following popup appears: "Debugger detected - please close it down and restart! Windows NT users: please note that having the WinICE/SoftIce service installed means that you are running a debugger". What is this?

- AutoGK has internal debugger running during that analysis step. Many programs mainly trials/shareware) have internal protection against debuggers to prevent modification of binary code. So all you have to do is to find such program that is running on your PC and exit it before AutoGK starts encoding.

**6.14 I set XviD target size to be XXX and get in the end YYY. It doesn't happen with DivX. What's the problem?**

**- see Q 6.3 first. Even if that doesn't apply to you - still consider reinstalling XviD as size problems are usually due to messed up codec configuration in the system.**

6.15. I get "EXCEPTION: Bad index file" error. What's wrong?

- Most likely you are trying to process unsupported input file. See Q 5.4

6.16 I get the following error in VDubMod during encoding:  
"FastWriteStream: couldn't open "xxxx.avi": ".  
- see [here](#) to find the answer (you have to disable your symantec antivirus...)

---

**Gordian Knot Family:**

Gordian Knot: [website](#), [download](#)

Auto Gordian Knot: [Website and download](#), [tutorial](#), [FAQ](#)

---

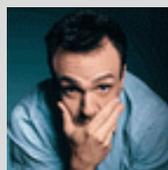
*Last edited by jggimi : 16th May 2007 at 15:06.*

4th April 2005, 14:14

#2 | [Link](#)

## len0x

I'm afraid we've to stop



Join Date: Mar 2003  
Location: Amongst mad people  
Posts: 5,288

---

### Change log history

- [04/04/05] - added Q 5.11
- [04/06/05] - added Q 6.16
- [12/06/05] - Updated Q 6.6, 5.10
- [06/08/05] - Removed 2.1, 2.2, 2.6, 5.10, 6.1. Updated 2.3, 2.7, 2.10, 4.3, 5.1, 5.4, 5.11. Added 5.12.
- [21/08/05] - Updated 3.4, 5.9, 5.12, 6.12. Added new section 1.
- [25/09/05] - Updated 4.3. Added 4.7
- [10/12/05] - Updated 4.3
- [15/08/06] - Clarified development status (top lines) - jggimi
- [07/05/07] - added BigDid's "MORE FAQ"
- [16/05/07] - edits to BigDid's section
- [18/05/07] - edits to BigDid's section

---

**Gordian Knot Family:**

Gordian Knot: [website](#), [download](#)

Auto Gordian Knot: [Website and download](#), [tutorial](#), [FAQ](#)

---

*Last edited by jggimi : 18th May 2007 at 23:31.*

7th May 2007, 19:04

#3 | [Link](#)

## BigDid

Discovering WoW

Join Date: Oct 2004  
Location: Sud-Hémisphèrien  
Posts: 1,225

---

### Official AutoGK FAQ (last modified on 18 May 2007)

=====

#### MORE FAQ for AutoGK

=====

#### 2. Audio

=====

2.5.1 when I choose "Output Audio type" as either "Auto" or "VBR MP3 128 kbps" my resulting avi is showing a bitrate of 108 kbps  
- This is a known feature (not bug) of the Lame-mp3 3.97 rev when encoding with ABR (noted as VBR in AGK). The idea is you get a CBR 128Kbp/s quality at less bitrate. You need to raise the bitrate to 144 to get +/- 128 (and so forth for upper bitrates)

## 2.14 *My audio(s) are out of synch with the video*

Different possibilities:

- \* If the DVD source is not protected (older DVD without the recent strong protections), use **this tool** in re-author mode and feed the resulting as input file for AutoGK
- \* If the DVD source is strongly protected use a recent decrypting tool (See the decrypting section for different tools and How-to).
- \* If your source is not a DVD or if you need to re-synch afterward (courtesy of setarip\_old):

Load the file into VirtualDub, VirtualDubMod, or NanDub.

Set BOTH "Video"(VirtualDub, VirtualDubMod and NanDub) and "Audio" (VirtualDub and NanDub - VirtualDubMOD>"Streams">"Stream list") to "Direct Stream Copy".

A) If the difference between audio and video is constant throughout the video:

\* From the "Audio" dropdown menu, select "Interleaving" (For VirtualDubMOD, rightclick on the listed audiostream and then select "Interleaving")

\* Under "Audio skew correction", set an appropriate number of milliseconds (positive or negative) in the box labelled "Delay audio track by"

\* Save with a new filename

B) If the difference increases as the movie plays:

\* From under the "Video" dropdown menu, select "Framerate" - and select "Change so video and audio durations match"

\* Save with a new filename

## 2.15 *I have a « audio1 is corrupted » when encoding audio to 144-CBR-mp3*

- It may have to do with 16/32 khz steps in CBR; you can retry encoding to 160 or 128 MP3 CBR

=====

## 4. Video/Codec

=====

### 4.3.1 *Is Divx6.x codec supported? .....*

- DivX 6.5 Pro and older are supported

### 4.3.2 *Is Xvid 1.2x supported?*

- Yes, the Xvid 1.2 build by Celtic\_Druid from the svn is included in the Autogk 2.40 install.

- If you want to change your xvid rev, be sure to follow the FAQ 6.3 recommendations

### 4.4.1 *What are good settings for anims?*

- Use the ESS option for anims, it forces the use of the H263 CQM/Matrix which has good results. You can also force a lower resolution (fixed or maximum width) to get 70% or more at the comp test, which gives an overall better quality for anims

### 4.6.1 *How can I retain original proportions?*

- In the hidden options, check "Tune auto crop parameters," set Threshold to 0, and set all cropping to 0

4.8 *In the Quality 1pass, what are the correspondances between quality percentage and DRF?*

- See table below for average results; due to B-frames usage, it is difficult to get accurate results between 80 and 100%

Code:

2.5	=	80 %
2.67	=	75 %
2.99	=	67 %
3.51	=	57 %
4.0	=	50 %

=====

## 5. General

=====

5.7.1 *I cannot set the hidden options with Ctrl/F9*

- You need to have a video loaded (in the « Input file » box) for this to work

5.7.2 *I have the hidden options panel open, now what?*

- Use the tutorial at the « HIDDEN OPTIONS » paragraph <http://www.autogk.me.uk/modules.php?name=TutorialEN>

5.12.1 *I cannot choose a mp3 audio source as original ...*

- See FAQ 5,12. Workaround: encode the video only, extract the audio from source and mux in final encoded file. Some tips in the above More FAQ 2,14

5.12.2 *How can I know what type of AVI file, type of mpeg file my source file is, or what type of codec?*

By using « GSpot » and looking in the « container » part, it will report file type; for the codec look in the « codec » part.

5.13 *I cannot (properly) install AutoGK in VISTA*

- Use the Administrator mode: right click on AutoGK shortcut -> properties -> compatibility -> "run program as administrator" /or go into the CTRL+F9 options and disable color correction in the global options

5.14 *What are the options available when installing or made global (active for each encoding) and how to change or disable them?*

- Available when installing:

.compatibility – contains ESS or MTK - can be changed or disabled in hidden options (CTRL/F9)

.versioncheck and/or .versioncheckstable – no change possible – delete the file in the X:\Program Files\AutoGK directory (X being the drive/partition where Agk is installed)

- Global options:

For details see the tutorial, chapter "hidden options"

5.15 *Can I change/update some of the installed components?*

- To be done at your own risk, nobody can be held responsible for damages occuring after changes etc...

- \* Xvid can be updated to the latest 1.2 SVN, see FAQ 4.3
- \* DgIndex 1.49 final not recommended yet (the number of frames is miscounted which throws off comptest) [Len0x]

=====  
**6. Encoding process**  
=====

6.3.1 *I used Xvid 1.x rev and I installed Xvid 1.y rev (or codec pack) on top of it, I have problems like undersized/oversized etc...*

- same as in FAQ 6.3: do a clean uninstall by de-installing the Xvid 1.x codec(or codec pack) and verifying there is no trace in the registry. When done, make a clean install of the Xvid 1.y and absolutely no codec pack if you want to be safe.
- If no luck for a codec pack removal, clean uninstall AutoGK and Codec (s), make a clean re-install of AGK and the Xvid or Divx codec only; nothing more, nothing less

6.11.1 *How to split manually or afterwards an AVI file?*

- Use VDUBMOD /save as /segment output size /limit size 700Mb

6.16.1 - In addition to 6.16 clues, Norton Internet Security 2006 is problematic and is to be replaced by Norton Internet Security 2007 (free upgrade)

6.17 *My computer freezes or restart during an encoding process,*

- Is it an overclocked PC?

A/ If not-> see posts related to hardware malfunction in the software/hardware section: <http://forum.doom9.org/forumdisplay.php?f=16>

B/ If yes -> Goto stock speed

At stock speed, is encoding OK?

Yes -> diminish overclock until stable

No -> see A/

=====  
**7.Various-Advanced-Tweaking**  
=====

7.1 *What matrixes (CQM) does AutoGK uses?*

- in the ESS mode, it uses the H.263 and MPEG standard MPEG4 matrixes
- in the MTK or normal mode, it uses the Jawor1CD CQM (soft matrix) or the Sharktooth Eqm\_V2 (sharp matrix) whenever possible.

7.2 *How can I tell, afterwards, if the ESS option was used?*

- You cannot get, afterwards, an info with "made by AGK with the ESS option" but you can guess correctly.

Use avinaptic <http://forum.doom9.org/showthread.php?t=123076> on the problematic avi. If it tells you in the -generic info- made with "VirtualDubMod 1.5.4.1(build 2178...)", that rev is used by AGK.

It will also tell you in the -About mpeg4 encoding- the quant type (Cqm) used; if "H263" appears, the ESS option was used.

7.3 *AutoGK is slow(er) now,*

- If you have checked the « accurate » box in the hidden options « Correct Color if needed », it will slow down an old/slow machine
- If it occurs during the analysis pass, it is a normal behavior for an AVI

source; for another source you may want to raise the thread priority of « VirtualDubMod »

=====

Having a problem with AutoGK? Read & use the [FAQ & MORE FAQ](#) first  
Beware I am using "deprecated technologies" ;)  
C2D E4300@2666/775DualVSTA WinXP-SP2 ATI9600XT Fortron BlueSt2-500W Peekton-6006-



7th May 2007, 19:05

#4 | [Link](#)

## BigDid

Discovering WoW

Join Date: Oct 2004

Location: Sud-Hémisphèrien

Posts: 1,225

### MORE FAQ log history

[07/05/2007] First release with  
- complements to Official FAQ 2.5.1-4.3.1-4.3.2-4.4.1-4.6.1-5.7.1-5.7.2-5.12.1-5.12.2-6.3.1-6.11.1  
- additions 2.14-2.15-4.8-5.13-5.14-5.15-6.17-7.1-7.2-7.3

[15/05/2007]  
-Reworded 2.14  
-Update for 4.3.1

[18/5/2007]  
Added 6.16.1  
Corrected 5.15

Having a problem with AutoGK? Read & use the [FAQ & MORE FAQ](#) first  
Beware I am using "deprecated technologies" ;)  
C2D E4300@2666/775DualVSTA WinXP-SP2 ATI9600XT Fortron BlueSt2-500W Peekton-6006-



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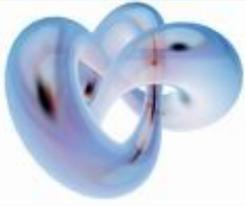
vB code is **On**  
Smilies are **On**  
[IMG] code is **On**  
HTML code is **Off**

### Forum Jump

All times are GMT +1. The time now is 04:41.

- -

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# Auto Gordian Knot

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## Survey

### Have you switched to Vista yet?

Yes, fully!  
I'm running XP/  
Vista in parallel.  
No, but really want  
to.  
No and not planning  
to.

#### Results

#### Polls

Votes **34345**

## Ad

## VERSION HISTORY

### 2.48b

- XviD build downgraded to CVS 08/12/06 as in 2.40
- DGMpgDec updated to version 1.5.0 beta 12

### 2.47b

- fixed external subs problem
- add command line option to start AutoGK in multi-instance mode: "-multi"
- DGMpgDec updated to version 1.5.0 beta 4
- XviD downgraded to version 1.2.0 CVS 20/12/06 to prevent undersize with ESS option enabled

### 2.46b

- DGMpgDec updated to version 1.5.0 beta 2 to prevent popups during encode
- included MPC 6.4.9.0 that does preview now
- compiled with new compiler/libraries
- added option to go to sleep (stand by) mode after encode
- colormatrix filter is updated to version 2.2

### 2.45

- XviD build updated to CVS 25/07/07
- DGMpgDec updated to version 1.4.9
- avisynth updated to version 2.5.7
- filters updated to latest versions
- colormatrix uses multiple threads on multiple CPUs
- added hidden option to hide DGIndex

### 2.40

- XviD build updated to CVS 08/12/06

### 2.37 beta

- fixed preview function for some locale settings
- XviD build updated to CVS 03/11/06
- filters ColorMatrix, VSFilter, Decomb and LeakKernelDelnt are updated

### 2.36 beta

- fixed vStrip.dll again for some IFO files

### 2.35 beta

- fixed re-encoding of AVI sources with MP3 sound
- preview now correctly adjusts audio delay after demuxing
- LAME updated to version 3.97

### 2.34 beta

- fixed crash in vstrip.dll when opening some IFOs
- added detection of multiple logical CPUs to be set as number of threads for XviD encoder
- MedialInfo updated to version 0.7.3.1

### 2.33 beta

- fixed bug when subtitle selection was ignored during loading of second and more jobs

## Donations

Please donate if you like the tool and wish to see it improving



## Ads

## Traffic Report

The public viewed

**23956715**

pages since August 12, 2004

### Total Hits

- New Today **20,861**
- New Yesterday **20,440**

### Average Hits

- Hourly 729.27
- Daily 17,502.4
- Monthly 532,371
- Yearly 6,388,457

### Server Time

- Time 23:41:46
- Date 04 Apr 2008
- Timezone -0400

- added audio to the preview from non-avi sources that can be used to identify correct audio stream and detect audio sync issues

#### 2.31 beta

- fixed bug during restoring of advanced settings
- fixed bug when advanced audio setting (CTRL-F11) were ignored
- updated log file/window with more custom audio info

#### 2.30 beta

- updated XviD SMP build to 12/07/06
- DGIndex is updated to 1.4.8
- audio/subs options completely redone: now its possible to select any number of audio/subs streams. To bring advanced audio options window press CTRL-F11

#### 2.27

- fixed compatibility with DivX 6.1.x
- quality based mode respects DXN HT profiles when DivX 6.1.x is used
- XviD 1.2 SMP build of 28/02/06 is bundled
- DGIndex 1.4.6 is bundled
- ColorMatrix.dll is updated to version 1.10

#### 2.26

- fixed compatibility of ESS option with latest XviD

#### 2.25

- fixed bug in handling 60fps FILM sources
- fixed bug when minimum width setting was not respected in some cases
- fixed bug in persisting "No Audio/No subs" options for consequent opened files
- fixed "help" link on about window
- fixed bug when AutoGK goes into loop of error message if no XviD is found and DivX version is unsupported
- GREATLY improved speed of analysis step for AVI input sources
- "Unknown language" label is no longer put into AVI audio stream comments
- fixed "cartoon" hidden option propagation for latest XviD
- added support for all DivX versions starting with 6.0.3 build 1697 (plain 6.0.0 is no longer supported)
- updated french and portuguese tutorials
- DGIndex is updated to version 1.4.5
- avisynth is updated to version 2.5.6a
- lame is updated to version 3.97b2
- XviD 1.1 build of 09/12/05 is bundled

#### 2.20

- updated multilingual tutorials
- audio/sub selection is remembered during consequential opening of files (again)
- .credits hidden option can be used for AVI input as well

#### 2.18.1 beta

- new XviD build included (the one in 2.18 was broken for some CPUs)
- DGIndex updated to version 1.4.4 Final

#### 2.18 beta

- ESS standalone compatibility options forces HT profile for DivX as well (previously only Sigma/MTK did that)
- added support for M1V input sources
- DGIndex updated to version 1.4.4 RC1
- fixed handling of DV sources (broken in 2.17)
- XviD build of 16/09/05 included

#### 2.17 beta

- DGIndex updated to version 1.4.3

- Installer enables two hidden options by default: .colorcorrection and .detect43
- filters RemoveGrain and VSFilter are updated
- warning when using quality based mode and standalone compatibility options is implemented
- VTS\_xx\_0.VOB file are ignored during encoding in IFO mode
- improved auto-naming of output files and last opened dir persistence for IFO mode

#### 2.16 beta

- improved "adjust subs" hidden option (no more cut off subs at the bottom)
- new XviD build included (03/08/05)
- DGMPGDec updated to version 1.4.1 RC1
- demuxing of two audio tracks is done in one go during indexing step (not for TS though)
- default target quality setting on main screen is changed to 60% for DivX6

#### 2.15 beta

- PAL mpeg1 sources are resized to a maximum of 384 pixels in width automatically
- Added support for 24/30/60fps input sources (as opposed to 23.976/29.97/59.94fps)
- Removed File/DVD mode selection. Select IFO file for DVD mode now
- Multiple VTS jobs can be queued from the same directory now (one per IFO file)
- default filtering is performed on DV sources now
- installer has standalone compatibility options again (but they still are available in the hidden options as well)

#### 2.13 beta

- Spaces can be used in file names even if external subs are used
- DGIndex updated to 1.4.0 final
- input/output files can reside in the root dir at the same time now
- fixed minor bugs in IFO parsing

#### 2.12 beta

- added support for MPEG1 input sources (including detection of FILM sources)
- added support for MPA audio in both input source and output AVI (direct copy or reencode to mp3)
- DGIndex updated to version 1.4.0 RC6
- removed limitation on some special characters in input/output file names
- removed setting min quantizer of 1 in XviD to allow undersized files again (in case of maxed out movies)
- added support for DivX6 (release build 1571 only)
- DVD mode does not longer require stream info file, but just IFO file

#### 2.09 beta

- ess compatibility option is working again (broken in 2.08)
- packed bitstream option of XviD is off again (make sure to reinstall packaged XviD)
- input file analysis is improved to detect more audio streams with larger delay
- same audio track from single track input source can be used for both first and second tracks again

#### 2.08 beta

- standalone compatibility options moved from the installer to the hidden options
- new XviD VFW dll packaged for MTK/Sigma chipset support (use only bundled version of XviD to be able to use that option)
- force deinterlace and IVTC options are made mutually exclusive on hidden options window
- fixed "adjust subs" in cases when AR is manually overridden
- external input subs in AVI mode are displayed during preview now
- DGIndex is updated to version 1.3.0 final

- fixed bug when encoding of hybrid/telecined AVI input sources was oversized

#### 2.07 beta

- fixed bug when color correction was used on AVI input sources
- XviD installer repackaged to solve install problems on Win9x
- added support for DTS audio in input AVI sources
- fixed bug when 4:3 AR detection was not working properly
- second audio in auto mode is VBR MP3 again

#### 2.06 beta

- removed Maximum Quality mode (use 100% quality instead)
- DV sources can no longer be detected as hybrid
- hybrid AVI input sources can be processed now
- fixed bug when other than first stream of subs could not be displayed (introduced in 2.05)
- "All subtitles" option works again (broken in 2.05)
- xvid 1.1 beta build from 10/04/05 is bundled (may solve the problem with having "bitrate spikes control" option on without ESS support)

#### 2.05 beta

- XviD 1.1 beta 2 is bundled (should be quite stable by now)
- fixed few minor bugs in the log
- M2V input is supported again
- disabled support for DIVX media format for the time being
- DGIndex updated to 1.3.0 beta 5
- audio and subtitles handling code is re-written to make it more flexible (for future versions)
- transport streams with multiple video streams can be processed again

#### 2.02 beta

- improved accuracy of duration detection for AVI input sources
- fixed duration detection for AVI input sources with wrong AVI header
- forced 4:3 output resolution autodetection is improved and moved to hidden options
- 1:1 AR in hidden options changed to 'Original' to allow proper anamorphic encoding
- fixed a bug when the same subs were put in all current jobs after a preview with subs

#### 2.01 beta

- added support for RGB codecs in input AVIs
- added support for manual AR settings for AVI input sources
- fixed procesing of 24fps AVI sources in some cases
- improved duration detection for AVI input sources
- added ability to select 1:1 PAR in hidden options to allow anamorphic encoding

#### 2.00 beta

- added preliminary support for input AVI files
- added preliminary support for .DIVX media format

#### 1.95

- updated tutorial
- new option in the installer to check updates only for stable versions
- auto complete of AVI file name in SaveAs dialog (uses input dir name as the name of avi file)
- minor GUI changes
- demuxed MPA tracks are no longer deleted after audio encoding
- min quality of credits that can be set is now 1%

#### 1.93 beta

- speedup of denoising for SSE2 & SSE3 capable CPUs (via different versions of RemoveGrain.dll)
- Reduced chance of oversized XviD encode in some cases

- min quantizer is reduced to 1 if undersize of XviD encode is expected
- encoding is aborted after first pass if number of frames was very different from expected (to prevent wasting time during second pass after first pass crashed)
- DGIndex updated to version 1.2.1
- ColorMatrix.dll is updated to version 1.9

#### 1.92 beta

- small GUI fixes - VRO extension is recognized in file mode
- .sharpmatrix hidden option can be global now (i.e. reside in AutoGK home dir)
- during fixed width encoding softer resizer is used when comp test is too low
- added check for correct number of frames after the first pass
- DGIndex is updated to version 1.2.1b2
- RemoveGrain.dll is updated to version 0.7

#### 1.91 beta

- fixed a bug when AutoGK didn't pick up all the vobs in DVD mode under FAT32 file system - fixed check for update for some systems - GUI is no longer reset after minimize/maximize operations - message "color correction enabled" is no longer always displayed in the logs - DGIndex updated to version 1.2.0 RC5 - faster color correction process via ColorMatrix.dll 1.8

#### 1.90 beta

- split of AVI files is adjusted a bit to prevent small undersize of the first CD
- cosmetic GUI changes
- DGIndex is updated to version 1.2.0 RC3
- added check for unsupported MPEG-1 files
- file mode is working under win9x (and even DVD mode compatibility with win9x is improved)
- fixed bug in parsing of TS (again)
- added ".colorcorrection" hidden option (see hidden\_options.txt for more info)
- installer deletes saved AutoGK settings

#### 1.89 beta

- fixed audio detection for some configurations in file mode
- AutoGK respects max resolution settings after change of matrix during resizing step
- some new icons (should look OK on non-WinXP systems)
- improved PIDs detection for transport streams
- remove .tstream hidden option
- added .aspect hidden option to override 16:9 vs 4:3 input AR
- input dir (or its parent) are persistent for different AutoGK runs

#### 1.88 beta

- intermediate WAV file is deleted after MP3 encoding
- DGMPGDec updated to version 1.1.0
- check for updates improved to detect stable/beta versions (new option will come for stable release)

#### 1.87 beta

- fixed some bugs on new hidden option window
- shortcut CTRL-F10 is removed
- for PCM/MPA audio tracks in auto audio mode default bitrate for > 1CD rips is 192kbps now
- BeSweet is replaced by azid/normalize/lame(3.96.1) combo (lots of testing required)
- minimum bitrate for both CBR and VBR modes is lowered to 32kbps
- removed timeout for demuxing operation

#### 1.86 beta

- added audio detection for the file mode (no more 'Unknown Audio')
- better handling of PCM audio streams in mpeg/vob files

- video PID is displayed in AutoGK upon loading of a transport stream
- ".audio\_id" hidden option is removed (as audio should be properly detected in file mode now)
- AutoGK Assistant is integrated into AutoGK (still via CTRL-F9)
- minor GUI fixes
- lame\_enc.dll is downgraded back due to problems with mono encoding

#### 1.85 beta

- removed high quality switch for lame mp3 encoding to get joint stereo output from BeSweet
- total duration of a job is displayed in the logs
- fixed minor GUI bugs in audio/subs selection
- autocrop.dll updated to version 1.2
- added additional parameters to control autocrop (see hidden\_options.txt), so manual cropping can now be performed
- speed (fps) of comp test is displayed properly
- second audio/subs is now visible by default (no need to press CTRL-F10)

#### 1.84 beta

- fixed subtitles position for half-D1 DVD sources
- debug mode shows complete vcf scripts in the logs
- bundled with XviD 1.0.3

#### 1.83 beta

- added support for LPCM audio tracks in file mode
- added link to FAQ on info window
- lame\_enc.dll updated to version 3.96.1

#### 1.82 beta

- 2Gb predefined target size is reduced to accomodate oversize (now its 2040 Mb)
- fixed a bug when custom target size resets itself during minimize/restore action
- fixed a bug when AutoGK cannot write registry settings after a codec was just reinstalled

#### 1.81 beta

- added option to the installer to explicitly control bitrates spikes for better SAP support. This means for DivX - home theatre profile is used only when this option is activated (previously it was always on and therefore HDTV sources could not beencoded properly using two passes). For future versions of XviD this option will enable VBV support (same as DivX profile basically).
- AutoGK can work under user with limited privileges (but not installed)
- minor cleanup of the code and compile using new libraries

#### 1.80 beta

- added support for external subtitles to be burnt into final AVI (TXT,SRT, SSA,SUB for text subs, IDX for vobsub subs) (CTRL-F8 toggles subs selection)
- improved detection of changed parameters after first pass readjustments

#### 1.79 beta

- improved handling of DTS and PCM audio tracks
- minimum and maximum width settings are respected during adjustments after first pass

#### 1.78 beta

- added support for DTS audio (note that to be able to play AVI files with DTS sound in them you'll need latest AC3Filter 1.01aRC5)
- added an option to check for latest version of AutoGK on startup to the installer

#### 1.76 beta

- fixed a couple of bugs preventing resizing beyond width of 608 and

#### adjustments after first pass

##### 1.75 beta

- fixed bug when AutoGK puts itself in the loop after the first pass (again)

##### 1.74 beta

- fixed bug when AutoGK increases width above max
- when increasing resolution AutoGK is able to switch matrix back to sharp one
- removed SSE2 version of RemoveGrain
- KernelDeInt updated to version 1.5.2
- autoscroll of log area has been improved

##### 1.73 beta

- more invalid input/output names is checked to avoid problems with DGIndex CLI
- fixed bug when AutoGK gets into infinite loop redoing first pass
- resolution is properly adjusted when redoing first pass
- .sharpmatrix hidden options now affects > 1CD rips as well

##### 1.72

- log area is now automatically scrolled
- AutoGK.ini moved to user home directory
- RemoveGrain.dll does not longer require msvc70.dll (static linkage)
- LanczosResize is used again

##### 1.70 beta

- sharp resizer is now Lanczos4Resize
- sharp matrix is now EQM V2
- removed support for old XviD and DivX versions. Now only XviD 1.0.2 and DivX 5.2.1 are supported
- fixed some typos in GUI
- Undot() is replaced by RemoveGrain()
- AutoGK is compiled using new visual libraries (may be some GUI bugs there)
- AutoGK's ini file is no longer in windows directory, but in AutoGK home directory
- custom size is persistent across different runs of AutoGK
- broken frame info from VDubMod is ignored and won't stop AutoGK
- current advanced settings are shown in the status bar of AutoGK
- changed i-frames settings for XviD's second pass
- AutoGK assistant can properly be used to set three hidden option in AutoGK home dir (when launched from CTFR-F9)
- "No Audio" setting is not reset when opening new source
- first pass will be rerun if difference to comp test result after first XviD pass is more that 15% or undersize is expected and adjustment of resolution/settings is possible

##### 1.60

- added hidden file option ".adjustsubs" that resize \_bottom\_ subs so that they are not squashed and in place properly (option works only for burnt-in subs)
- added support for launching AutoGK Assistant (the same way as Hidden Options Tool via CTRL-F9)
- info window contains all shortcuts used in AutoGK
- added missing FDecimate.dll and new KernelDeInt to the installer
- fixed bug when "all" subs were selected but only first ones were processed (for external subs)

##### 1.57 beta

- better support of TS sources (better overhead calculations, more precise comp test and credits support)
- fixed small bugs/typos in the log file
- added support for bringing 60/50 fps sources down to 24/25/30 fps via FDecimate and ".fps" hidden file (see hidden\_options.txt)
- threshold detection for small hybrid sources is now working

#### 1.55 beta

- maximum width setting can now be larger than source width
- DVD/File mode setting is now persistent across several runs of AutoGK
- KernelDeInt is updated to version 1.5.1
- timeout of 45 min during indexing step is only happening if encoding is not the last one in the queue

#### 1.54 beta

- log file is cleaned up and most of VDubMod scripts logged there can only be viewed when enabled via ".debug" hidden file
- audio stream comments removed in file mode
- muxing options of AC3 audio tracks for ESS-based standalones players changed
- slightly tuned resizing parameters for highly compressible sources
- added PID detection for TS which do not have PAT/PMT via bbSummary (I modified bbInfo 1.9)
- some bugs fixed in handling of second audio in file mode
- 60fps progressive sources are now either kept at original frame rate or restored to 24fps if 3:2:3:2 dupe pattern found
- added one more optional line to ".autocrop" hidden file to specify starting frame for autocrop operation (useful if beginning logo or into has different AR)
- bundled with Avisynth 2.5.5 (works ONLY with it)
- bundled with XviD 1.0.2

#### 1.53 beta

- hidden options are displayed in the log
- files that are being processed are displayed in the log
- file mode can work with 24fps sources
- added hidden file ".audio\_id" to override audio stream in file mode (see hidden\_option.txt)
- TS sources are handled more properly when opening in AutoGK

#### 1.52 beta

- half-D1 DVDs are supported again
- support for win95/98/ME is back again (broken in 1.50)
- added support for Win2003 and Longhorn
- included better uninstaller with updates of AutoGK

#### 1.51 beta

- resizing algorithm for >1CD rips is improved to allow higher resolutions
- quality parameters slightly tuned
- fixed bug: analysis step was run on the full source in 1.50

#### 1.50 beta

- added support for DivX 5.2 (only H263 quantization type)
- fixed bug when subtitle selection was not preserved for consequent sources
- soft matrix for XviD is now Jawor's 1CD matrix (so resizing algorithm was adjusted)
- comp test and analysis step have now lower limit of 2000 frames for better accuracy on short sources
- added hidden option file ".sharpmatrix" to enforce usage of sharp matrix for 1CD (or less) rips
- demuxing timeout is increased to 40 min
- added hidden option file (in AutoGK dir, not input folder) ".itu" which forces ITU resize method like in GK
- fixed bug when non-english characters in output path resulted in "error opening AVI file" exception

#### 1.48 beta

- disappearing arrows in job list/log window bug fixed
- fixed bug in job list hints
- shutdown windows option is not executed if job list is not empty

#### 1.47 beta

- fixed bug: sharp matrix was not used for 1CD or less rips no matter what comp test result was

#### 1.46 beta

- preview is working for NTSC sources more than just one time
- fixed bug when "No Audio/Subs" option was not preserved on source reload (and therefore two audio/sub streams were processed)
- BeSweet updated to version 1.5b29

#### 1.45 beta

- added hints into job list to show settings for each job
- status of combobox for language/subs selection is preserved after new job load (only index not actual language)
- updated doc about hidden options
- added support for multi-program transport streams (pop-up dialog is shown to choose correct program)

#### 1.44 beta

- preview is working for transport streams now
- fixed "audio not found" error for TS sources again
- added support for second audio for TS sources
- added support for ".deint" hidden file (should be input dir) to force deinterlacing of hybrid material
- added support for ".kerneldeint" hidden file (in home dir of AutoGK) which specifies threshold for deinterlacing (1-255, default 10)

#### 1.43 beta

- job list now has automatic horizontal scrollbar
- input file must exist in file mode
- output file name is completed automatically in file mode
- fixed "audio not found" error for transport streams
- if TS has a proper PMT/PAT tables then audio streams of the first program displayed in the GUI

#### 1.42 beta

- added shortcuts for all the buttons:
  - CTRL-O - open input dir dialog
  - CTRL-S - open save file dialog
  - CTRL-E - advanced options window
  - CTRL-P - preview
  - CTRL-A - add to the queue
  - CTRL-R - start encoding
  - CTRL-X - abort encoding
  - CTRL-Up - move job up
  - CTRL-Down - move job down
  - CTRL-D - delete job from the queue
- sharp matrix used for under 700Mb target sizes more frequently
- GUI rearranged a bit
- fixed bug with no audio found in file mode
- if audio file doesn't have delay in its name it still can be processed now

#### 1.41 beta

- DGMPGDec updated to version 1.0.12
- Double click on the tray icon is no longer affects other icons
- added support for overriding autocrop parameters via ".autocrop" file:
  - first line is a threshold 0-255 (AutoGK uses 34 by default)
  - second line is number of frames to examine (AutoGK uses 10 by default)
- input file path for transport streams can contain spaces now
- maximum width setting is respected in quality-based mode
- fixed bug in selection of subtitle streams
- added explicit selector for DVD/file input (CTRL-F12 is no longer functional)

#### 1.35 beta

- DGMPGDec updated to version 1.0.11
- added support for 60/50fps sources
- hybrid sources with threshold 0.0 are considered to be FILM
- added preliminary support for transport streams:
  - \*.ts, \*.tp, \*.tsp, \*.m2p are considered to be TS
  - ".tstream" in input folder can specify video (first line) and audio (second line) PIDs
  - if not found then DGTable is used to parse PAT/PMT tables and first video and audio streams are picked up
  - if tables are not present then default 11/14 PIDs are used
  - only MPA and AC3 audio is supported (use no audio option in case other types are in TS)
- added check for successful audio encoding
- added option to set maximum width
- heavily rewritten resolution-chooser algorithm and fixed a couple of bugs there
- bundled with XviD 1.0.1

#### 1.30 beta

- DUE TO MISUSE OF AUTOGK WITH UNSUPPORTED RIPPING TOOLS, IT'S NO LONGER ABLE TO PARSE IFO FILES, SO ONLY DVDDECRYPTER IN IFO MODE CAN BE USED FROM NOW ON
- AutoGK works now with DGMPGDec 1.0.9
- removed test for alternative field order for PAL sources
- video type and AR is taken from D2V file now
- added support for direct opening of MPEG2 files (VOB/M2V/MPG/MPEG). Enabled by CTRL-F12
- fixed problem of cutting off last few seconds of video during splitting
- installer fixes AVI file association to prevent "Error opening AVI" after comp test
- added option to rip all subtitle streams (only when using external subs)
- message "WinRar is not found" is no longer displayed when internal subs are used
- improved parsing of stream info file
- comp test limit is reduced to 65% for XviD 1.0 (resulting in higher resolution output)
- added more debug info into logs
- indexing/demuxing step has now timeout of 30 min after which job will be aborted to allow the queue to proceed
- subtitle splitting step has now timeout of 5 min after which job will proceed anyway
- bitrate for mono encoding is now always half of the bitrate set on advanced options window
- resizing algorithm changed heavily to accommodate upcoming support for different input sources (ITU standard is no longer applied)
- field order, aspect ratio and resolution is now taken during encoding from D2V file
- maximum width is increased to 1920
- max quality and target quality modes are using source input width and not predefined width of 720/704

#### 1.25

- updated DVD2AVIdg to version 1.3.0 Final (which should solve issues with small cut off of movie endings)
- updated decomb.dll to version 5.2.1
- AutoGK and OS versions are now put in the logs
- updated documentation

#### 1.24 beta

- updated DVD2AVIdg to version 1.3.0 RC3
- AutoGK detects MMX, SSE and SSE2 CPUs and chooses correct iDCT for DVD2AVIdg
- if CPU is not MMX-enabled - AutoGK won't start
- tray icon is restored after Explorer crash on win2000/XP
- updated BeSweet to version 1.5b28
- auto-resize is now mod 16
- XviD 1.0 final bundled

#### 1.23 beta

- added support for half D1 DVDs
- update DVD2AVIdg to version 1.3.0 beta 6
- fix settings of fixed size of 1024
- fixed size increment is now 16 instead of 32
- some new icons

#### 1.22 beta

- maximum fixed resolution is increased to 1024
- number of frames is detected correctly with new DVD2AVIdg
- language tracks info is added as comments to the video AVI stream (to use with MMSwitch)

#### 1.21 beta

- fixed handling of pure FILM sources (bug introduced in 1.20)

#### 1.20 beta

- updated BeSweet to version 1.5b27
- updated DVD2AVIdg to version 1.2.0 RC7 (testing required)
- input AR less than 1.4 is considered 4:3 material and that output AR is forced

#### 1.19 beta

- fixed runtime 216 error for HT CPUs on startup
- forced subs are correctly displayed in the preview when selected
- changed normalized parameter of BeSweet to hybridgain again
- CTRL-F9 now launches Hidden Options tool if it resides in the same dir as AutoGK (plus current path is propagated to it - requires version 0.6+)

#### 1.18 beta

- credits option for pure FILM sources is picked up properly
- fixed BeSweet 1.5b26 included

#### 1.17 beta

- CTRL-F10 shortcut is no longer global and should not interfere with any other application (but rather works only on AutoGK active window)
- resolution settings are adjusted for XviD 1.0 RC4 comp test
- AC3 muxing setting are now 96ms/96ms

#### 1.16 beta

- fixed bug when pure FILM movies cannot be processed (introduced in 1.14)
- overhead for second audio stream is calculated properly in auto mode
- when old XviD is detected during setup, warning is displayed and new XviD is not installed

#### 1.14 beta

- field operations (ivtc, deinterlace) are performed before crop now to avoid colour problems
- new logo and icon for AutoGK
- added hidden\_options.txt file which describes all hidden options
- added XviD 1.0 RC4 and BeSweet 1.5b26 to the installer as we're getting closer to stable release

#### 1.12 beta

- fixed oversize when using credits option for XviD
- added quality percentage(20-100) and greyscale(TRUE,FALSE - capital letters) options to .credits file (should be second and third line in that file, just frame number doesn't work anymore)
- added "no audio" option to the list of audio tracks
- more info displayed in the logs about hidden options used (also log file is cleaned up a bit)

#### 1.10 beta

- added support for mono audio tracks: if its describe as '1ch' in stream info file then AutoGK automatically does mono mp3 conversion or you can use usual ".mono" file to force it
- links to the new website updated
- advanced settings are restored on startup even if advanced window wasn't shown yet (bug introduced in 1.08)

#### 1.09 beta

- changed the size of DVDRs related predefined sizes
- added support for cartoon mode for XviD 1.0 (via file ".cartoon" in input dir)
- added support for end credits for XviD 1.0 (via file ".credits" in input directory containing just a frame number in it)

#### 1.08 beta

- added support for ".ivtc" control file in input dir to force normal IVTC on hybrid-detected material
- location of autogk.ini file has changed from install dir to windows dir (so default advanced settings are lost on update from previous versions)
- added 1/3, 1/4, 1/5 and 1/6 of DVDR as predefined sizes

#### 1.07 beta

- fixed problem with encoding/muxing of second audio in some cases
- another attempt to solve HT issues (please report if it works or not)

#### 1.05 beta

- second audio can be set explicitly to a given type in non-auto modes
- autosplit works correctly with two audio streams
- interlaced detection threshold raised to 2% (to avoid unnecessary deinterlacing)
- updated documentation
- added support for XviD 1.0 which is automatically detected

#### 1.0

- updated documentation

#### 0.98 beta

- program doesn't hang anymore if no codecs are installed
- removed contact email. DO NOT CONTACT ME BY EMAIL ABOUT ISSUES WITH AUTOGK, USE THE FORUM INSTEAD
- added check for previous version, so that update cannot be run without AutoGK installed already

#### 0.96 beta

- second subtitle is properly displayed in the logs
- advanced audio settings are working properly again

#### 0.95 beta

- fixed bug "divided by zero" after analysis step in rare cases
- audio bitrate is always 128kbps for MP3 in Auto Mode
- added support for ESS-based standalone DivX players (if selected during install then MPEG/H.263 matrixes are used instead of custom ones)
- slightly tuned resizing algorithm
- added support for second subtitle stream (only when using external subs) CTRL-F10 hotkey as usual
- changed handling of errors during audio demuxing/transcoding (no more errors about audio being 4Gb in size)
- small internal enhancement of analysis step
- new decomb 5.1.1 included (thanks sh0dan) which solved green picture problems

#### 0.92 beta

- fixed bug when DVD2AVI was started two times in a row for indexing
- second audio is now always MP3 in Auto Mode
- new VDubMod is no longer packaged with update (please reinstall 0.8,

then update with 0.92)

- changed normalization audio option from hybrid gain to post gain

0.90 beta

- min bitrate for VBR (ABR) is now 80kbps to avoid crashes in BeSweet
- added support for second audio, but it's hidden by default (press CTRL-F10 to enable it)
- added Delimiter(0,255,0,255) after decomb's filters to avoid green colour rips

0.89 beta

- fixed bug when audio could get out of synch after split
- added 2Gb predefined size

0.88 beta

- several minor job queue bugs fixed
- added icons for job queue buttons
- improved hybrid source handling again
- quality based mode sizing for XviD fixed

0.86 alpha

- fixed transparency of the main window for XP themes

0.85 alpha

- added support for DVDDecrypter 3.1.8 and higher
- added automatic PGC and Angle selection for subs from name of input files (use corresponding options from DVDDecrypter)
- fixed detection of WinRAR installation dir
- audio MP3 encoding options changed (ABR and boosting)
- added job queue
- improved handling of hybrid sources (thanks for the tips, bilu)
- undot filter is not used if non SSE-enabled CPU is detected

0.8

- fixed problem when external subs are selected, but no sub stream is chosen
- tray menu improved
- updated tutorial
- maximum width of "minimal width" mode is now 640 instead of 720
- added possibility of custom subs settings picked up from "subs.settings" in input directory. It should have two lines like this:

- 0 - first is angle (0 if none)
- 2 - second is PGC

if file is not found then no angles and PGC 1 is assumed

0.77 beta

- make AutoGK work with VDubMod 1.5.10.1 (although its not included in the installer and its usage not recommended yet)
- added tray icon when minimized
- improved autocrop & smartcrop
- xvid quality based mode improved
- chroma optimizer option is on for XviD by default
- new transparent logo in info window

0.75 beta

- fixed problem with preview and external subtitles
- added auto split of subs
- no more crashes while parsing of input folder - proper error message is displayed instead

0.74 beta

- max mp3 bitrate increased to 320kbps
- quality based mode for XviD now gives proper output size

- quality based mode now uses b-frames for both XviD and DivX
- added support for up to 32 subs stream
- added support for external subs (no splitting yet): <movie>.idx and <movie>.rar are created in the output dir only if WinRAR is installed on the system, otherwise internal subtitles will be used

#### 0.72 beta

- added quality based encoding (single pass)
- added support for forced subtitles
- fixed output directory locking while application is running
- added more info in the log file
- added balloon hints to main window

#### 0.70 beta

- fixed avisynth crop error for non-standard video sources
- output resolution and AR is printed in the logs now

#### 0.69 beta

- tmp dir renames to agk\_tmp to avoid confusion
- max custom size increased to 10,000 Mb
- AutoGK can be run without admin rights on NT-based systems

#### 0.68 beta

- fixed problem with output size > 2Gb
- improved help icon
- improved readability of the log file (formatting mainly)
- new VDubMod splitting problem fixed
- XviD codec startup error fixed (if XviD is not installed)

#### 0.66 beta

- reduced bitrate for DivX to remove slight oversize
- implemented check for installed codecs on startup
- long movies are handled more properly
- new start & abort buttons
- new NSIS installer

#### 0.65 beta

- added DivX 5.1.1 Pro support
- preview no longer require analysis
- audio encoding and sub indexing is done after analysis step
- fixed bug with saving/restoring of advanced settings (note name of the ini in root AutoGK folder changed)
- Max key frames interval is now always 10 sec and depends on output framerate

#### 0.5

- fixed bug when aborting preview operation
- hybrid detection parameters slightly adjusted
- scroll arrows of the log window are always visible now
- double usage of softer resizer fixed
- fixed crash on exit while encoding
- first pass AVI is not saved anymore (to save some space)
- updated tutorial

#### 0.49 beta

- autosplit only works if you select 2 or 3 CDs as target size now
- icons update
- minor cosmetic changes

#### 0.48 beta

- fixed crash when source had more than 16 audio/subs streams
- muxing of audio is now done during second/single pass to save some space
- PAL sources with swapped field order can now be recognized (and appropriate option is selected in d2v file)

- new input folder selector
- implemented a check for input folder validity
- new icons
- updated tutorial

#### 0.45 beta

- more information in shown logs (settings, duration and speed)
- ivtc/intrelace/hybrid detection changed again
- parsing of stream info file now relies on stream description, so that all types of audio/video/subtitles can be recognized
- fixed bug with advanced setting picked up wrongly on startup
- Neutral Bicubic is now used as softer resizer
- resizing algorithm refined with respect of keeping sharp resizer as long as possible
- d2v file is created with SSEMMX iDCT instead of FPU (encoding should be a bit faster)
- autosplit is improved (should not create more overhead while splitting)
- updated tutorial
- some minor bug fixes

#### 0.4 beta

- added a tutorial help file
- first installer version
- fixed shutdown bug after preview
- history and license files are created, usage.txt is removed
- added third-party tools links

#### 0.37 alpha

- added shutdown when done option
- added support for unknown languages in stream info file
- changed detection and handling for hybrid sources

#### 0.35 alpha

- improved parsing of stream info file
- audio and subs are now handled in a more generic way (should be much less errors like "audio not found")
- extended subs information now displayed from stream info file
- fixed problem with preview and subs
- improved telecining/interlacing detection
- new type of source can be recognized: hybrid (both mostly FILM and NTSC)
- for pure FILM sources analysis pass is no longer run
- small internal fixes

#### 0.33 alpha

- fixes oversize problem in some cases

#### 0.32 alpha

- audio bitrate increment is now 16kbps
- video length is displayed in info when working with IFO files
- preview works again
- program asks to abort encoding when closing
- rough check for free size on output drive is implemented

#### 0.31 alpha

- GREATLY improved compressibility test accuracy
- threshold for detecting interlaced frames was increased
- final quality is reported now after first pass

#### 0.3 alpha

- "Bitrate 0" problem fixed
- symbols "[]" are not allowed in the input and output paths
- output can be a root directory now
- IFO mode can now correctly pick longest chain and use it all the way through (if it's the only chain in vobset though)

- "tmp" dir is cleared now on job start
- final video is split if its more than one CD (more than 702 Mb)
- Default deinterlacer is now KernelDeInt
- 4:3 input sources are kept with proper 4:3 aspect ratio (most of the time)
- Automatic IVTC/interlacing detection scheme implemented
- Misc option on advanced tab are removed
- LPCM tracks can be decoded and processed
- new filters are used (chr.dll and kerneldeint.dll)
- decomb updated to version 5.1.0
- donation link added (don't hesitate to use it :) )

#### 0.22 alpha

- fixed problem with counting of frame for PAL sources
- an attempt to fix weird GUI size problems (with spin editbox)

#### 0.21 alpha

- fixed bug in resizing algorithm when switching to bicubic resize

#### 0.2 alpha

- added audio selector in options: Auto, VBR\_MP3, CBR\_MP3, AC3 + bitrates
- added "Always IVTC" option which always IVTCes NTSC source even if it is 0% FILM
- added support for WAV and MPA soundtracks from DVDs
- fixed "comma as decimal separator" problem
- improved resizing algorithm (for lower comp test values bicubic resize is used as well)
- ITU option renamed to "keep perfect 4:3 ratio"
- added checks for XviD and AviSynth installed at startup
- XviD is made default decoder for YV12 video at startup
- misc cosmetics

#### 0.1 alpha - initial public release



# Auto Gordian Knot

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## Survey

### Have you switched to Vista yet?

Yes, fully!  
 I'm running XP/  
 Vista in parallel.  
 No, but really want  
 to.  
 No and not planning  
 to.

### Results Polls

Votes **34345**

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Full installation package of last stable version of the popular DivX / XviD conversion tool.

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Latest test versions of the popular DivX / XviD conversion tool.

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<a href="#">AutoGK Update - Mirror 2</a>	28754
<a href="#">AutoGK Update - Mirror 1</a>	129017
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- ➔ [Have you switched to Vista yet?](#) (Results - 34344 votes)
- ➔ [Would you buy movies online for downloading?](#) (Results - 30965 votes)
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- ➔ [If you were to pay/donate for AutoGK how much that would be?](#) (Results - 2188 votes)
- ➔ [Which TV do you have?](#) (Results - 3796 votes)
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# Auto Gordian Knot

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Votes **34345**

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- 3: [Version 2.27 is out](#) - (38346 reads)
- 4: [Last version of AutoGK is out: 2.20 stable](#) - (25546 reads)
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- 6: [Version 2.37 beta is out](#) - (15857 reads)
- 7: [AutoGK 1.60 stable is out](#) - (14961 reads)
- 8: [Version 2.47 beta is out](#) - (13967 reads)
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- 10: [Version 2.32 beta is out](#) - (10715 reads)

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- 4: [Xmas is early this year - version 2.26 is out!](#) - (39 votes)
- 5: [AutoGK 1.60 stable is out](#) - (34 votes)
- 6: [Version 2.45 is out!](#) - (29 votes)
- 7: [Version 2.48 beta is out](#) - (28 votes)
- 8: [Stable AutoGK 1.95 is out](#) - (23 votes)
- 9: [Version 2.47 beta is out](#) - (12 votes)
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- ➔ 8: [Do you need support for > 2 audio tracks in AutoGK?](#) - (4408 votes)
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- ➔ 10: [What is the most needed feature for AutoGK now?](#) - (3953 votes)

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- ➔ 1: [len0x](#) - (6 news published)

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	<b>Sticky: Auto Gordian Knot: current version 2.48 beta</b> ( 1 2 3 4 5 ... Last Page) len0x	18th March 2008 22:05 by <a href="#">michaelhill</a>	4,447	2,156,315
	<b>Sticky: GKnot and AutoGK Guides</b> manono	1st December 2007 19:00 by <a href="#">kuttichan</a>	9	57,039
	<b>Sticky: Official AutoGK FAQ (last modified on 18 May 2007)</b> len0x	7th May 2007 19:05 by <a href="#">BigDid</a>	3	710,863
	<b>Sticky: Gentle reminder about manners in a forum</b> DDogg	19th January 2007 15:48 by <a href="#">Freakazoidalmaniac</a>	15	14,363
	<b>Sticky: DVD2AVI, Force Film, IVTC and Deinterlacing</b> ( 1 2) manono	20th April 2005 21:35 by <a href="#">chros</a>	23	31,592
	<b>Sticky: FAQ: GKnot fails to find a log file! (Last update 17 June 2003)</b> ( 1 2) jggimi	10th January 2005 11:01 by <a href="#">derebo</a>	21	22,236
	<b>Sticky: SourceForge development for GordianKnot</b> len0x	14th April 2003 14:44 by <a href="#">len0x</a>	12	19,029
	<b>Sticky: GKnot 0.27 Segmented AVI loading</b> hakko504	25th March 2003 20:33 by <a href="#">SunDanceKid2001</a>	9	13,884
	<b>Sticky: Resolutions, Aspect Ratios And The ITU-R BT.601 Standard</b> ( 1 2) manono	19th March 2003 13:17 by <a href="#">TheWEF</a>	39	44,146

	AGK always out of sync milfner	Today 02:55 by <a href="#">milfner</a> 	5	182
	AGK - Output Video too short, Audio out of sync skaface	Yesterday 21:42 by <a href="#">skaface</a> 	2	43
	XviD vs Divx IYG	Yesterday 20:42 by <a href="#">Pulp Catalyst</a> 	13	879
	new_gordian_knot (1 2 3 4 5 ... Last Page) 	2nd April 2008 08:30 by <a href="#">gizmo27</a> 	136	31,158
	Audio/Video demuxed but not remuxed. Please help. rbmcgee	1st April 2008 23:31 by <a href="#">rbmcgee</a> 	0	47
	Anime in GK HartleySan	31st March 2008 04:49 by <a href="#">HartleySan</a> 	2	120
	Audio Video completely Out of Sync (1 2) arrirc	31st March 2008 00:45 by <a href="#">milfner</a> 	37	2,759
	Why *.avi audio is before video? All other *.avi's are correct, but this one... xMBx 	28th March 2008 18:32 by <a href="#">xMBx</a> 	15	1,134
	Subtitle Synchronisation Issue adw888	27th March 2008 20:22 by <a href="#">setarip_old</a> 	4	195
	Getting VituralDub error when encoding in AGK vaylen	27th March 2008 09:09 by <a href="#">vaylen</a> 	0	96
	Gordian Knot on steroids: The agkp add-on (1 2) 	26th March 2008 19:24 by <a href="#">M3n747</a> 	20	5,790
	Merging VOB files, converting result to AVI (with subtitles) osullic	24th March 2008 19:32 by <a href="#">osullic</a> 	7	273
	Subtitles not appearing in AVI after selecting the subtitle track in AutoGK osullic	24th March 2008 15:24 by <a href="#">albrecht</a> 	10	638
	IDX file not found (AGK 2.09) txjoker	22nd March 2008 12:02 by <a href="#">stormy1777</a> 	15	868
	wrong file size? pixeldotz	20th March 2008 22:11 by <a href="#">den78</a> 	1	142
	VBR audio nevragain	20th March 2008 16:51 by <a href="#">mr soft</a> 	6	572

	<a href="#">video stutter in xbox 360</a> jntaylor63	18th March 2008 19:29 by <a href="#">jntaylor63</a> 	0	124
	<a href="#">Will autogk ever be updated again?</a> CCoug83	18th March 2008 04:00 by <a href="#">IYG</a> 	1	546
	<a href="#">Audio and Subtitle Trouble</a> gkt	17th March 2008 15:15 by <a href="#">Chetwood</a> 	7	391
	<a href="#">AutoGK: ability to save/export joblist?</a> albrecht	17th March 2008 14:42 by <a href="#">Chetwood</a> 	1	141
	<a href="#">German Tutorial</a> fanspiraphi	16th March 2008 11:24 by <a href="#">Brother John</a> 	1	154
	<a href="#">Video Compression Error</a> jallp82	16th March 2008 02:17 by <a href="#">Southstorm</a> 	1	151
	<a href="#">auto gk problem</a> poonpower	15th March 2008 05:46 by <a href="#">budwzr</a> 	11	554
	<a href="#">(non)sense of width upscaling</a> Ma Laoshi	11th March 2008 19:02 by <a href="#">Southstorm</a> 	17	820
	<a href="#">ADPCM Audio Trouble</a> budwzr	11th March 2008 04:44 by <a href="#">budwzr</a> 	8	297

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HTML code is **Off**

All times are GMT +1. The time now is 04:42.

- -

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# Auto Gordian Knot

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## Survey

### Have you switched to Vista yet?

Yes, fully!  
 I'm running XP/  
 Vista in parallel.  
 No, but really want  
 to.  
 No and not planning  
 to.

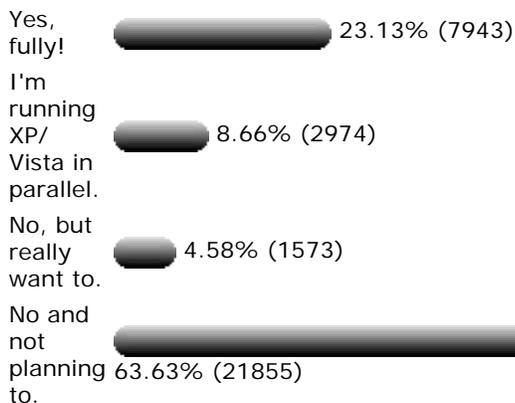
#### Results Polls

Votes **34345**

## Ad

## Current Poll Results

### Have you switched to Vista yet?



**Total Votes: 34345**

[ [Voting Booth](#) | [Other Polls](#) ]

### Last 5 Surveys at AutoGK Homepage - THE tool for XviD / DivX conversion

➔ [Would you buy movies online for downloading?](#)  
(30965 votes)

➔ [Do you watch videos on portable devices?](#)  
(13101 votes)

➔ [Which CPU brand do you use for video encoding the most?](#)  
(11431 votes)

➔ [Are you ready to use a h264 codec regularly?](#)  
(17074 votes)

➔ [Do you need support for > 2 audio tracks in AutoGK?](#)  
(4408 votes)

➔ [What is the main type of source you process with](#)

## Donations

Please donate if you like the tool and wish to see it improving



## Ads

## Traffic Report

The public viewed

**23956739**

pages since August 12, 2004

### Total Hits

- New Today **20,885**
- New Yesterday **20,440**

### Average Hits

- Hourly 729.27
- Daily 17,502.4
- Monthly 532,372
- Yearly 6,388,464

### Server Time

- Time 23:42:43
- Date 04 Apr 2008
- Timezone -0400

[AutoGK?](#)  
(4216 votes)

[...more  
polls](#)

Page Generation: 0.0273 Seconds and 35 DB Queries in 0.0306 Seconds  
Interactive software released under [GNU GPL 2](#), [Code Credits](#)



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## Survey

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Yes, fully!  
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 to.  
 No and not planning  
 to.

**Results**  
**Polls**

Votes **34345**

## Ad

## Past Surveys

- ➔ [Have you switched to Vista yet?](#) (Results - 34344 votes)
- ➔ [Would you buy movies online for downloading?](#) (Results - 30965 votes)
- ➔ [Do you watch videos on portable devices?](#) (Results - 13101 votes)
- ➔ [Which CPU brand do you use for video encoding the most?](#) (Results - 11431 votes)
- ➔ [Are you ready to use a h264 codec regularly?](#) (Results - 17074 votes)
- ➔ [Do you need support for > 2 audio tracks in AutoGK?](#) (Results - 4408 votes)
- ➔ [What is the main type of source you process with AutoGK?](#) (Results - 4216 votes)
- ➔ [Which codec \(theoretically\) do you want to see supported by AutoGK?](#) (Results - 6294 votes)
- ➔ [Would you like to see a standalone players section on this site?](#) (Results - 1762 votes)
- ➔ [What is the most needed feature for AutoGK now?](#) (Results - 3953 votes)
- ➔ [If you were to pay/donate for AutoGK how much that would be?](#) (Results - 2188 votes)
- ➔ [Which TV do you have?](#) (Results - 3796 votes)
- ➔ [Do you have MPEG4-enabled standalone player?](#) (Results - 2766 votes)
- ➔ [Which codecs do you use with AutoGK?](#) (Results - 5375 votes)

## Surveys Attached to Articles

## Donations

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## Ads

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- New Yesterday **20,440**

### Average Hits

- Hourly 729.27
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Click                            to enter payment information on our secure payment form.

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