# Converting DVD's to MKV/VC1/AC3 with FairUse Wizard

#### **Overview:**

-- This How-To guide describes the tools & configurations needed to transcode DVD's to MKV files using VC-1 Compression. This process is meant to make personal backups of already owned DVDs. Observer all applicable copywrite laws. It is not meant to debate the quality of VC-1 vs H264 vs DivX or XVID. Taking encoding time, filesize, & quality all into consideration, WMV9Advanced (WVC1) in MKV containers is <u>my personal preference</u>. -- This guide is broken up into 4 parts. 1 – Software tools needed, 2 – Codecs & Application Configuration Prep, 3 – Transcoding a single title on a DVD, 4 – Transcoding a multiple-title DVD (ie, TV Series DVD's).

-- Using this method, on an Intel-Core2Duo 6300, 7300GS nVidia, & VistaSP1 – a typical 2 hour movie will take approximately 45-50 minutes to complete. The same process on the same system, using x264 with comparable quality will take approximately 2.25 hours to complete.

### I. Software Tools Needed:

\*\*\* Install Using All Defaults in the Following Order

\*\*\* All software is Freeware/OpenSource (WMP11 SDK may be downloaded instead of full WMP11—observe MS Licensing if in doubt).

- 1) DVD43 (On-The-Fly DVD Decrypting)
  - a. <u>http://www.dvd43.com/</u>
  - b. May Also Use DVD Decrypter & Rip to ISO instead
- 2) FFDShow (VFW VC-1 Encoding Support)
  - a. http://www.codecs.com/FFDShow\_download.htm
  - b. Download latest SSE version
- 3) AC3Filter (AC3 Audio Decoder)
  - a. http://www.codecs.com/AC3\_Filter\_download.htm
  - b. Download latest "Stable" version
- 4) Maali Media Splitter (For .MKV Container Support)
  - a. http://www.codecs.com/Haali\_Matroska\_Splitter\_download.htm
  - b. Can't play MKV Files? Do a google search for, "How to set MKV perceived type" to tell windows how to recognize MKV files as videos.
- 5) Windows Media Player 11 (For WMV9-Advanced Profiles / WVC1 Codecs)

   a. http://www.microsoft.com/windows/windowsmedia/download/alldownloads.aspx
- 6) FairUse DVD Wizard 2.8 Free/Full Edition
  - a. http://fairuse.free.fr/FU-Setup.exe

### **II.** Codec/Application Configuration

- 1) VFW VC1 Configuration
  - a. Start/Programs/ffdshow/VFW Configuration
  - b. Select WMV9-Advanced Encoder
  - c. Select WVC1 FOURCC
  - d. Select OnePass Average BitRate
  - e. Specify 700 (for non-CGI cartoons), 1000 (for old TV shows), 1200 (for new TV shows or CGI cartoons/movies) 1500 (for movie), 2000 (for "dark" movies)
  - f. Specify 90 for Crispness
  - g. Click OK to close
- 2) AC3Filter Configuration
  - a. Start/Programs/AC3Filter/AC3Filter Config
  - b. Click Ok
  - c. Main Tab Under Output format, specify "AS IS / NoChange"
  - d. System Tab Check Use AC3Filter for All
  - e. System Tab Check "Prefer AC3Filter"
- 3) FairUse Configuration

- a. Start/Programs/FairUse Wizard 2/FairUse Wizard 2
- b. Options
- c. Preferences Dropdown Specify "Codec Setting"
- d. Select ffVFW Radial Button
- e. Under Audio Track Dropdown Specify "AC3"
- f. (If videos will be used to output to a 4:3 SD-TV, check "Use TV display mode")
- g. Specify a default Destination Folder
- h. Check "Enable expert mode"
- i. Select Preferred container (AVI or MKV)
- j. Click Next to return to Main Screen
- k. Click Cancel/X to close down

#### **III. Transcoding DVD (Single Title Movies)**

- 1) Open FairUse (Start/Programs/FairUse Wizard 2/FairUse Wizard 2)
- 2) Enter the movie's name, specify/verify output folder, & click "Next"

|               | as well as cached DVD data. Because of this, it may require quite a lot of disk space (6 GB+ depending on the video<br>length).<br>© Create a new project<br>Name: |
|---------------|--|
| an an Aless   | MovieName % % % % % % % % % % % % % % % % % % %  |
|               | Folder:  |
| UDT -         | (X:\FUTemp) Browse   |
|               | O Open an existing project   |
|               | Project:   |
| V 👘           | Browse   |
|               | - Batch Processing   |
|               | Process selected project(s)  |
| ALC: NOT      | Process all projects   |
| S             | Clear queue  |
| Secondesides. |  |
| NE STATIO     |  |
| - SKILL       |  |
|               | Click here to go to the FairUse homepa   |
|               | Help/F.  |
|               |  |
|               | 🔽 Full auto mode   |

a.
3) Specify which DVD Drive to read from (if transcoding from physical DVD), or browse to the DVD ISO—then click OK:

| Please select the drive that contains the DVD to be converted (please note that<br>FairUse won't convert copy protected discs):<br>D: MATSHITA DVD-RAM UJ-860H [0:0:0] | 🔊 Select D¥D Dri                            | ve 🔰  |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|
| D: MATSHITA DVD-RAM UJ-860H [0:0:0]  | Please select the dr<br>FairUse won't conve | ive that contains the DVD to be converted (please note that<br>ert copy protected discs): |  |  |  |  |  |  |
| Or select an ISO image to use as a source. You can create ISO image files<br>using DVD Decrypter :   | D: MATSHITA DVI                             | D: MATSHITA DVD-RAM UJ-860H [0:0:0]   |  |  |  |  |  |  |
|  | Or select an ISO im-<br>using DVD Decrypt   | age to use as a source. You can create ISO image files<br>er :                            |  |  |  |  |  |  |
| X:\moviedvd.iso Browse   | X:\moviedvd.iso                             | [Browse]  |  |  |  |  |  |  |
|  |   | OK Cancel   |  |  |  |  |  |  |
| OK Cancel  |   |   |  |  |  |  |  |  |

4) Select/Verify appropriate Title & click 'Next'



- b.
  5) At this point FairUse will index the Title's VOB files. If reading directly from physical DVD, it will also cache the title to the harddrive. This process may take anywhere from a few seconds to 20-30 minutes depending on the speed of the DVD drive, the total size of the title on the DVD, and/or if reading from an ISO file.
- 6) The next screen will appear:

| 🙀 FairUse Wizard 2.8 |                              |                           |                          |
|----------------------|------------------------------|---------------------------|--------------------------|
| Frame range          |                              |                           |                          |
| Start: 0 📝 💆         |                              |                           |                          |
| End: 33632           |                              |                           |                          |
| Ch. 01 (00:18:42) 🔻  |                              |                           |                          |
|                      |                              |                           |                          |
| Cropping region      |                              |                           |                          |
| Left: 0 · ·          |                              |                           | <i>\\\\\\\\</i>          |
| Right 719            |                              |                           |                          |
| T op: 479 🐳          |                              |                           |                          |
| Bottom: 0 🔹          |                              |                           |                          |
| Auto set             |                              |                           |                          |
| -> MEM MEM ->        |                              |                           |                          |
| 16:9 3:2 4:3         |                              |                           | 33632                    |
| 5:4 1:1              | L                            |                           | Set credits start        |
| Subpicture options   |                              |                           | Logo options             |
| Include subpictures: | 🔲 Show forced subtitles only | 🔲 Horizontal safety zone: | ₅ % □ Show logo ℃で       |
|                      | Extract subtitles            | Vertical safety zone:     | 5 % Logo Mask            |
|                      |                              |                           |                          |
|                      |                              | < <u>B</u> a              | ick <u>N</u> ext> Cancel |
|                      |                              |                           |                          |

- a.
- 7) Click "Auto Set" button to auto-crop the title
- 8) If title has necessary subtitles, check "Include Subpictures", "Show forced subtitles only", and "Vertical Safety zone"
  - a. You may slide the marker bar back to forth to quickly look for forced subtitles.
  - b. Check "Extract subtitles" (for use with later advanced subtitling only—files may be deleted or you may uncheck this box if you do not wish to encode non-forced subtitles into the MKV)
  - c. If you're unsure if video has any subtitles, I'd suggest checking these boxes "just to be safe"
  - d. WARNING: Checking "Include Subpictures" without "Show forced subtitles only" will result in the ENTIRE movie's subtitles being PERMINANTLY "burned" into the video w/o the ability to turn them off!

e. If you wish to include the non-forced subtitles into the MKV that may be turned on/off, there are advanced steps that I will include later.

| <sub>위</sub> FairUse Wizard 2.8  |                            |                         |  |
|--|----------------------------|-------------------------|--|
| Frame range<br>Start: 0 ✓<br>End: 33632 ✓<br>Ch. 01 (00:18:42) ▼<br>Cropping region<br>Left: 6<br>Right: 712<br>Top: 477<br>Bottom: 3<br>Auto set<br>→ MEM MEM → |                            |                         |  |
| 16:9         3:2         4:3           5:4         1:1   |                            |                         | Set credits start                                    |
| Subpicture options   | Chow forced subtities only | Horizontal safety zone: | 5 %     Show logo     CC       5 %     Logo     Mask |
|  |                            | < <u>B</u> ac           | k Next > Cancel                                      |

- 10) **HINT:** If you wish to "test" the encoding process on just a few minutes of video instead of the whole movie, you may adjust the Start & End Frames to only include a few minutes worth of frames. This will save a lot of time while you go through any of your trial-and-error phase.
- 11) Select the appropriate (de)interlace method or choose AutoDetect

| 🖥 FairUse Wizard 2.8  |   |       |
|---|---|-------|
| Since DVD video is primarily desi<br>fields. Each field contains either t | gned to be played back on interlaced devices (like televisions), when it is decoded it produces a series of<br>he odd or even lines to be displayed.  |       |
| On the other hand, DivX AVI files<br>DivX AVI file, fields must be comb   | are made up of full frames that contain both odd and even lines, so to convert a DVD video source into a<br>ined together to form entire frames.  |       |
| The mode setting below lets you   | control how fields will be combined to form frames.   |       |
| Field combination   |   | _     |
| C Native mode   | The fields will be combined in order, exactly as specified by the video stream. If any 3:2 pull-down flags<br>are present, they will be obeyed. The output frame rate will be 29.97 fps.                            |       |
| IVTC mode   | An attempt will be made to reconstruct the progressive frames from telecined video. The field order will b<br>changed as necessary and repeated fields will be discarded. The output frame rate will be 23.976 fps. | e     |
| 🔲 Bob deinterlace   |   |       |
|   | To analyse the video stream and select the best mode, click Auto Detect. Auto Detect  | ⊅     |
|   |   |       |
|   | < Back Next > C   | ancel |

a.

- b. **HINT:** I've always found the AutoDetect to correctly choose the method. When in doubt, leave it as detected.
- 12) Encoding Settings:
  - a. On the next screen, adjust the file size until it reaches the approximate target bitrate (as defined by the type of video you are transcoding from above section II.1.e
  - b. Highlight the highest avail. Output resolution.
    - i. Check "Show only preferred resolutions will help keep the resolution from distorting based on target display.
    - ii. Check Use TV display mode ONLY if your target display is a 4:3 (square) TV
    - iii. Check Enable HD resolutions ONLY if you are attempting to "up-convert" from a standard definition title to an HD supported resolution
    - iv. If Lanczos resizer is checked, leave it—it will typically result in a better resolution compression.

| O XviD O  | DivX                                      | Size  | <b>182</b>                                  | Codec setting               | 15                |                |
|---|---|---|---|-----------------------------|-------------------|----------------|
| C x264 C  | VP7                                       | Juantizer C   | 1200.6 KBits/s                              | Encodi                      | ng speed          | Codec settings |
| udio encodings<br>State Str<br>Pending 00                     | eam<br>: Unknown, M                       | IPEG, 48kHz 16                                      | bits 2ch                                    | Add<br>Remove<br>Properties | Audio 1 AC3       | 128 Kb/s       |
| esolution<br>Output Video Si:                                 | ze Bits/P                                 | Compre  | Show only                                   | preferred resolutions       | Files             |                |
| 624 × 448<br>608 × 448<br>592 × 432<br>576 × 416<br>560 × 400 | 0.183<br>0.188<br>0.200<br>0.214<br>0.229 | 131 : 1<br>127 : 1<br>120 : 1<br>112 : 1<br>105 : 1 | ☐ Rotate 90°<br>☐ Enable HD<br>☑ Use Lanczi | resolutions<br>os resizer   | Split at every ch | nents          |
| 544 x 400   | 0.236                                     | 102:1 💌   | 🛛 🗖 Anamorphic                              | s mode                      |                   |                |

- c.d. Clicking "Defer processing (enqueue)" will allow you to delay the encoding job & proceed to preparing another title for batch processing.
  - i. After repeating the steps for preparing all your batch processing, at the Main screen, click "Process All Projects"

| 🔊 FairUse Wizard 2.8 |   |
|----------------------|---|
| 1                    | You need to create a project for each DVD that you convert. The project holds all of your settings and intermediate results,<br>as well as cached DVD data. Because of this, it may require quite a lot of disk space (6 GB+ depending on the video<br>length). |
|                      | O Create a new project  |
| Service -            | Name:<br>%session% %part% %chapter%   |
|                      | Folder:   |
| R. C.                | X:\FUTemp\ Browse   |
| 10000                | <ul> <li>Open an existing project</li> <li>Project:</li> </ul>  |
|                      | Browse  |
|                      | Batch Processing  |
|                      | Project Process selected project(s)   |
| 3435 344             | Process all projects  |
| Wetty Balling        |   |
| No State             |   |
| 1998 B               | Click here to go to the FairUse homepage  |
| 1.1                  | Fodec settings  |
|                      | Full auto mode  |
|                      |   |
|                      | Options Next > Cancel   |

- ii. Options Next> Cancel
  iii. Go get some coffee or a beer & wait for the jobs to complete. A results window will appear when the jobs are done.
- e. Clicking Next will begin the encoding immediately.

| 5% - FairUse Wizard 2.8   |  |
|---|--|
|   |  |
| The DVD video is now being converted.   |  |
| Depending on the length of the video, and how many encodings are being created, this<br>should go away and do something else for a while. | s can be a very time consuming process. So maybe you                               |
| 1 video encoding (0 pending), 1 audio encoding(s)   |  |
| 11111   |  |
| 30 minutes remaining (29 fps)   | <ul> <li>Shutdown computer when done</li> <li>Run in IDLE base priority</li> </ul> |
|   | < <u>B</u> ack <u>N</u> ext> Cancel  |

i. Go get some coffee or a beer & wait for the job to complete. A results window will appear when the job is done.



14) This completes the steps to transcode a DVD Main Title to MKV/VC-1/AC3.

# **IV. Transcoding DVD (Multi-Title Series Discs)**

- 1) Open FairUse (Start/Programs/FairUse Wizard 2/FairUse Wizard 2)
- 2) Enter the series' name, specify/verify output folder, & click "Next"
  - a. FairUse now has the ability to auto numerate episode filenames; so, if you wanted to start at episode 1, a naming convention could look something like, "TVShow-%session%=01"
  - b. The resulting file name would be: "TVShow-01"
  - c. If you are batching multiple episodes per disc, it will automatically name them 01-04 (or howevermany you have)
  - d. Simply replace the '01' with the starting number of the episodes as they start on the disc.
    i. For example, if you are transcoding the 2<sup>nd</sup> disc & it has 4 episodes on it, starting with
    - episode 5 thru episode 8, the Name would be "TVShow-%session%=05"
- 3) Specify which DVD Drive to read from (if transcoding from physical DVD), or browse to the DVD ISO then click OK:
  - a. **HINT:** You can GREATLY speed up the process of an entire season if you make temp ISO's of all the discs on the season & batch the entire season.

| 🔬 Select DVD Drive  |
|---|
| Please select the drive that contains the DVD to be converted (please note that<br>FairUse won't convert copy protected discs): |
| D: MATSHITA DVD-RAM UJ-860H [0:0:0]   |
| Or select an ISO image to use as a source. You can create ISO image files<br>using DVD Decrypter :                              |
| Browse  |
| OK Cancel   |

- b. 4) You should notice all the episodes are already highlighted:
  - a. In this example there are 4 TV episodes on this disc that we will batch encode
  - b. The lowest chain number will be the "first" episode (ie, chain 11 from the following pictures equals Episode 01. The highest chain number equals Episode 04.

| FairUse | Wizard   | 2.8         |  |  |         |        |
|---------|----------|-------------|--|--|---------|--------|
| Chain   | AB       | Duration    | Audio Streams  | Subpicture Streams   | Size MB | Cached |
| 0       | 16/9     | 0:00        |  |  | 1       | 9%     |
| 1       | 16/9     | 0:00        |  | Unknown  | 1       |        |
| 2       | 16/9     | 0:00        |  |  | 1       |        |
| 3       | 16/9     | 0:00        |  |  | 1       |        |
| 4       | 16/9     | 0:00        |  |  | 1       |        |
| 5       | 16/9     | 0:00        |  |  | 1       |        |
| 6       | 16/9     | 0:00        |  |  | 1       |        |
| 1 7     | 16/9     | 0:00        |  |  | 1       | 5%     |
| 8       | 4/3      | 0:00        |  |  | 1       | 14%    |
| 10      | 16/9     | 0.20        | Linker som   |  | 10      | 100%   |
|         | 1073     | 41:45       | English Espanol Espansis                                 | English Espanol y 2 Eranopia                                     | 1027    |        |
| 12      | 10/3     | 41.40       | English, Espanol, Francais                               | English, Espanol x 2, Francais<br>English, Espanol y 2, Francais | 1027    |        |
| 12      | 16/9     | 41.55       | English, Espanol, Francais<br>English, Espanol, Francais | English, Espanol x 2, Francais<br>English, Espanol x 2, Francais | 1950    | )      |
| 14      | 16/9     | 41.30       | English, Español, Français                               | English, Espanol x 2, Francais<br>English, Espanol x 2, Francais | 1932    |        |
|         | 4/3      | 0.08        | English, Espanol, manadis                                | English, Españora 2, Handais                                     | 1002    |        |
| 16      | 16/9     | 0.00        | English  |  | 12      |        |
|         |          |             |  |  |         |        |
|         |          |             |  | C Cache all program chains (7782 MB)                             |         |        |
|         |          |             |  | Cache the selected program chain(s) only                         |         |        |
| 🗆 Hide  | chains s | horter than | 60 seconds   | Cache the selected program chains (multisession)                 |         |        |
| , 11.30 |          |             | - j scoonds  | Cache the selected program chains (Hullisession)                 |         |        |
|         |          |             |  | C Cache the selected program chains (semi-auto)                  |         |        |
|         |          |             |  | < <u>B</u> ack   |         | Cancel |

- c. \_\_\_\_\_ d. Click 'Next'
- e. At this point FairUse will index the Episode VOB files. If reading directly from physical DVD, it will also cache the episodes to the harddrive. This process may take anywhere from a few seconds to 20-30 minutes depending on the speed of the DVD drive, the total size of the episodes on the DVD, and/or if reading from an ISO file.
- 5) The next screen will appear:

| 📸 FairUse Wizard 2.8   |  |                         |   |
|--|--|-------------------------|---|
| Frame range<br>Start: 0 7<br>End: 75140 7<br>Ch. 14 (00:03:44)                             |  |                         |   |
| Left: 0<br>Right: 719<br>Top: 479<br>Bottom: 0<br>Auto set<br>→ MEM MEM -><br>16:9 3:2 4:3 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,      |                         | 73740   |
| 5:4 1:1  |  |                         | Set credits start   |
| Subpicture options Include subpictures: 00: English (586 - nc)                             | Show forced subtitles only  Karact subtitles | Horizontal safety zone: | Logo options     CC       5     %       5     %       Logo     Mask |
|  |  | < <u>B</u> a            | ck <u>N</u> ext > Cancel  |

- a.6) Click "Auto Set" button to auto-crop title
- 7) If episodes have necessary subtitles, check "Include Subpictures", "Show forced subtitles only", and "Vertical Safety zone"
  - a. You may slide the marker bar back to forth to quickly look for forced subtitles.
  - b. Check "Extract subtitles" (for use with later advanced subtitling only—files may be deleted or you may uncheck this box if you do not wish to encode non-forced subtitles into the MKV)
  - c. If you're unsure if video has any subtitles, I'd suggest checking these boxes "just to be safe"

- d. **WARNING:** Checking "Include Subpictures" without "Show forced subtitles only" will result in the ENTIRE movie's subtitles being PERMINANTLY "burned" into the video w/o the ability to turn them off!
- a. If you wish to include the non-forced subtitles into the MKV that may be turned on/off, there are advanced steps that I will include later.
- b. **HINT:** When batching multiple episodes, some may have forced subtitles & some may not, for this reason I suggest you include subpictures/show forced only by default in all your jobs.

| <sub>脅</sub> FairUse Wizard 2.8 |   |                         | ×                          |
|---------------------------------|---|-------------------------|----------------------------|
| Frame range                     |   |                         |                            |
| Start: 0                        |   |                         |                            |
| End: 75140                      |   |                         |                            |
| Ch 14 (00.02.44)                |   |                         |                            |
| [Ch. 14 (00:03:44)              |   |                         |                            |
| Cropping region                 |   |                         |                            |
| Left: 2                         |   |                         |                            |
| Right: 717                      |   |                         |                            |
| Top: 477 🗧                      |   |                         |                            |
| Bottom: 2 🗧                     |   |                         |                            |
| Auto set                        |   |                         |                            |
| -> MEM MEM ->                   |   |                         |                            |
| 16:9 3:2 4:3                    |   |                         | 73740                      |
| 5:4 1:1                         |   |                         | Set credits start          |
| Subpicture options              | ~ |                         | Logo options CC            |
| Clude subpictures:              |   | Horizontal safety zone: | 5 % Show logo CC           |
| 04: Francais (10 - n)           |   | Vertical safety zone:   | 5 % Logo Mask              |
|                                 |   |                         |                            |
|                                 |   | < <u>B</u> a            | ck ( <u>N</u> ext>) Cancel |

- 9) **HINT:** If you wish to "test" the encoding process on just a few minutes of video instead of the whole movie, you may adjust the Start & End frames to only include a few minutes worth of frames. This will save you a lot of time while you go through any of your trial-and-error phase.
- 10) Select the appropriate (de)interlace method or choose AutoDetect.

| nce DVD video is primarily o<br>ds. Each field contains eith | lesigned to be played back on interlaced devices (like televisions), when it is decoded it produces a series of<br>I er the odd or even lines to be displayed.  |
|--|---|
| the other hand, DivX AVI<br>WAVI file, fields must be c      | files are made up of full frames that contain both odd and even lines, so to convert a DVD video source into a<br>ombined together to form entire frames.   |
| e mode setting below lets y                                  | ou control how fields will be combined to form frames.  |
| ield combination   |   |
| C Native mode  | The fields will be combined in order, exactly as specified by the video stream. If any 3:2 pull-down flags<br>are present, they will be obeyed. The output frame rate will be 29.97 fps.                          |
|  | An attempt will be made to reconstruct the progressive frames from telecined video. The field order will<br>changed as necessary and repeated fields will be discarded. The output frame rate will be 23.976 fps. |
| ·  |   |
| Bob deinterlace  |   |
| Bob deinterlace  | To analyse the video stream and select the best mode, click Auto Detect.  |
| Bob deinterlace  | To analyse the video stream and select the best mode, click Auto Detect. Auto Detec   |

8)

- a. On the next screen, adjust the file size until it reaches the approximate target bitrate (as defined by the type of video you are transcoding from above section II.1.e
- b. Highlight the highest available output resolution.
  - i. Check "Show only preferred resolutions will help keep the resolution from distorting based on target display.
  - ii. Check Use TV display mode ONLY if your target display is a 4:3 (square) TV
  - iii. Check Enable HD resolutions ONLY if you are attempting to "up-convert" from a standard definition title to an HD supported resolution
  - i. If Lanczos resizer is checked, leave it—it will typically result in a better resolution compression.
- c. **HINT:** If you know the audio is NOT AC3 (ie, it is old TV Stereo), you may specify MP3 instead of AC3—this may leave a little extra space for video quality on the same size file.

| airUse Wizard 2.8   |                            |
|---|----------------------------|
| Video encodings     Spe     427 → MB     Codec settings       C XviD     C DivX     11203.2 KBits/37     Encoding       C x264     C VP7     L two pass     Encoding  | r speed Codec settings     |
| Audio encodings   | Quality                    |
| State         Stream           Pending         00: English, AC3, 192k/2.0/DS  | Audio 1 AC3 192 Kb/s       |
| Resolution  | Files                      |
| Brdiput Video Size Bits/P Compression<br>688 x 384 0.195 123 : 1<br>656 x 659 0.213 110 1<br>Brdin Port Start S | Output file segments 1     |
| 640 x 352     0.228     105 : 1     □   | Split at every chapter 🗖   |
|   | Defer processing (enqueue) |
|   |                            |
|   | < Back Next> Cancel        |

| This project<br>video as we<br>C Creat | t contains one or mo<br>ell as the settings co<br>te a new session<br>inue an existing sess | re sessions. /<br>ntroling how<br>This c<br>range<br> | A session consis<br>it is to be conve<br>option allows you<br>, as well as new<br>option allows you<br>gs of an existing | sts of a selected range<br>ented.<br>u to select a new vide<br>processing options.<br>u to edit the encoding<br>session. | e of       |            |                                      |   |
|--|---|---|--|--|------------|------------|--------------------------------------|---|
| C Creat                                | te a new session<br>inue an existing sess   | This c<br>range<br>                                   | option allows you<br>, as well as new<br>option allows you<br>gs of an existing  | u to select a new vide<br>) processing options.<br>u to edit the encoding<br>) session.                                  | 90         | F          |                                      | A STATE OF A |
| C Conti                                | inue an existing sess   | This c<br>ion setting                                 | option allows you<br>gs of an existing   | u to edit the encoding<br>I session.   |            |            | Se st                                |   |
|  |   |   |  |  |            |            |                                      |   |
|  |   |   |  |  |            | <          | Defer project pro                    | ocessin   |
| ld C                                   | Chain Frame   | e Range   | Duration   | Subpicture   | Field Mode |            | Resizing                             | Sta   |
| 0 1                                    | 11/0 0-1  | 75140   | 41:47  | 04: Francais   | NTSC IVTC  | 70-        | 4x476 -> 688x384                     | Re  |
| 1 1                                    | 12/0 0-1  | 74980   | 41:41  | 04: Francais   | NTSC IVTC  | 70-        | 4x476 -> 688x384                     | Re  |
| 3 1                                    | 13/0 0-<br>14/0 0-1   | 74698   | 42:56<br>41:32   | 04: Francais<br>04: Francais   | NTSCIVIC   | 70-<br>70- | 4x476 -> 688x384<br>4x476 -> 688x384 | Re  |
| Proc                                   | ess selected session  | n(s)  | Process  | s all sessions   | D          |            | Remove selected                      | l sessio  |

12)

a. If you wish to delay the encoding & batch multiple discs, click "Defer project processing"
i. Return to Main screen & repeat the process for the remaining DVDs
b. To immediately begin processing the selected episodes, click "Process all sessions".

| % - FairUse Wizard 2.8  | _  |
|---|--|
|   |  |
| The DVD video is now being converted.<br>Depending on the length of the video, and how many encodings are being created | t this can be a very time consuming process. So maybe you                          |
| should go away and do something else for a while.   |  |
| Session 1/4 : 1 video encoding (0 pending), 1 audio encoding(s)   |  |
|   |  |
| 20 minutes remaining (34 fps)   | <ul> <li>Shutdown computer when done</li> <li>Run in IDLE base priority</li> </ul> |
|   |  |

13)
14) Go get some coffee or a beer & wait for the job to complete. A results window will appear when the job is done.

| 🔊 FairUse Wi | izard 2.8  | _ 🗆 🗵 |
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| 198          | A REAL PROPERTY AND A REAL |       |
|              |  |       |
|              | Well, that's it. The output AVI file has been created and it can be found at:  |       |
|              | X:\FUTemp\MovieName.mkv  |       |
|              | All you gotta do now is burn it! Enjoy   |       |
|              |  |       |
|              | < <u>Back</u> <u>N</u> ext>  | inish |
|              |  |       |

### V. Subtitles

A later guide will elaborate further; however to "get you going" –Use "mkvmerge GUI" to open the MKV video & add the IDX/SUB file for the video & "Mux" it together.