

**jMultiFilesAndDirsCopy** is my first java swing desktop application.  
I'm a j2ee developer so my naturally UI is the web and not the desktop.  
To learn more about java desktop programming I'm developing this application.

With **jMultiFilesAndDirsCopy** you can copy multiple files to multiple dirs and much more.  
Take a look at my future plans for it.

This application is now donationware with no ads for your own purposes. Please, if you use this software in your job consider to support the author sending a donation (€ or \$); thanks in advance for your support.

License: Creative Commons Attribution-NoDerivs 3.0 Unported License.

It is provided "as is". Use it at your own risk.

Any damages to your systems are not responsibilities of the author of this piece of software.

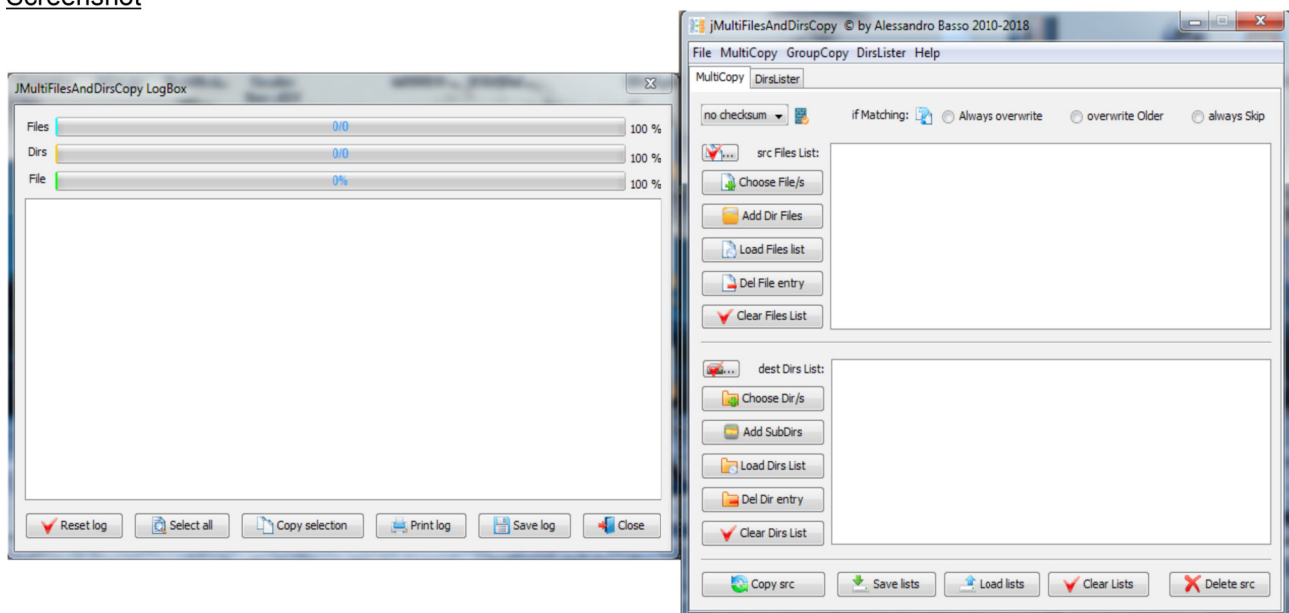
### Requirements

- a Windows modern OS system
- jre 1.7.x already installed
- a screen resolution of almost 800x600

### Tools used

- NetBeans 7
- jdk 1.7.x
- Look&Feel as OS standard

### Screenshot



### Author

Alessandro Basso  
Noventa di Piave  
Venice  
Italy

[alexbss@gmail.com](mailto:alexbss@gmail.com)

(sorry if I can't answer to all the emails received because they are too many).

Version history:**v 0.9.0.0**

initial release

- TAB1: MultiCopy	*
copy multiple files to multiple dirs	*
win version	*
handles overwrite/matching of files	*
multi files selection	*
multi dirs selection	*
delete src files from disk	*
clear files list	*
clear dirs list	*
right mouse context menu inside lists	*
delete single file entry from list	*
delete single dir entry from list	*
launch single file entry from list	*
view contents of single dir entry from list	*
- separate log window	*
shows start and end time operations	*
print log window content	*
clear log window content	*
copy selected log window content to clipboard	*
close/open window on user needs	*
- extra dialogs	*
shows confirmation dialogs	*
shows error dialogs	*

**v 0.9.1.0**

Minor update release

## a. added:

- files and dirs progress bar indicator in the log window
- import and export of files list from/to xml file
- import and export of dirs list from/to xml file
- import and export of both files and dirs lists from/to xml file
- some button tooltips for helping users

## b. fixed:

- text scrolling in log window now follows operations in progress.

**v 0.9.2.0 – 0.9.8.0**

internal releases only.

**v 0.9.9.0**

Minor update release

a. added:

- current file progress bar indicator in the log window (waiting for large files)
- import and export of files list from/to txt file
- import and export of dirs list from/to txt file
- import and export of both files and dirs lists from/to txt file
- load all files of a selected dir in files list (only first level, not the complete subtree)
- load all subdirs of a selected dir in dir list (only first level, not the complete subtree)
- some GUI re-organization

b. fixed:

- xml loading messages to Log window and to user on the screen.

**v 0.9.9.1**

Minor update release

a. added:

- add drag'n drop support for files list (files and/or dirs of files)
- add drag'n drop support for dirs list (only dirs without subdirs)
- add selection filters to files chooser dialog window
- add alternate lines colors to both dirs and files lists
- add system icon to every entries in both files and dirs
- some GUI enhancement, decorations and re-organization

b. fixed:

- better mouse selction handler for files and dirs lists
- GUI LookAndFeel set finally to OS Standard

**v 1.0.0.0**

Minor update release

a. added:

- cmd line args support for batch use (ex. Inside your preferred tasks scheduler system)
- shutdown pc command support (for batch and for direct copy)
- checksum control for every copy (5 algorithms supported: crc32, md5, sha1, sha256, sha512)
- checksum support in cmd line args too
- checksum for a single src file via right mouse button menu in files list
- new menu "MultiCopy" for extra commands
- shows destination disks space (total and available)
- shows source files total dimension
- checks destination disks space before copy (files matches not considered, only total files)
- save log window contents as txt file (even as cmd line arg) for report
- new MENU "GroupCopy" for MultiGroupsCopy support (also via cmd line args) with xml file only

b. fixed:

- copy speed improvement
- replace gui app icon and systray app icon (instead of the java defaults)
- lists are now auto-ordered
- more actions write into log window

**v 1.1.0.0**

Major update release; features list follows:

a. added:

- TAB2: (Multiple)DirsLister --> lists folders (name, base-path, free disk-space) from different locations

features	add	fix	plan
- TAB2: MultipleDirsLister	1.1.0.0		lists dirs from different locations
lists folders from different locations (name, path, free)	1.1.0.0		
can open single folder from list (2-click or r-mouse)	1.1.0.0		
can load all the subdirs of a dir or from a base-path	1.1.0.0		
can remove a single entry from list via r-mouse menu	1.1.0.0		
can show dir dim on disk	1.1.0.0		
can show disk space	1.1.0.0		
can rename a dir on disk	1.1.0.0		
can create subdir in dir or in base-path	1.1.0.0		
can create subdirs from list inside txt file	1.1.0.0		
can show BASIC attributes via r-mouse menu	1.1.0.0		
can show DOS attributes via r-mouse menu	1.1.0.0		
can show ACL attributes via r-mouse menu	1.1.0.0		
can show POSIX attr. if supported via r-mouse menu	1.1.0.0		
support drag-n-drop from filesystem to list	1.1.0.0		
rows can be sorted using headers (only text-mode)	1.1.0.0		
rows can be filtered via text-field	1.1.0.0		
shows always the n. rows in the view	1.1.0.0		
can load list of dirs from xml/txt file	1.1.0.0		
can save list of dirs in xml/txt file	1.1.0.0		
can load the dirs from a MultiGroup xml file (1 or all)	1.1.0.0		
can re-calc free disk-space for every dir in the list	1.1.0.0		
can save list of subdirs of a dir entry as txt file	1.1.0.0		
can save list of subdirs of a path entry as txt file	1.1.0.0		
can save list of dirs as subdirs list in xml/txt file	1.1.0.0		
can save list of full path dirs as active html file	1.1.0.0		
can save list of Dirs as Group	1.1.0.0		
can add list of Dirs as new Group in MultiGroup file	1.1.0.0		

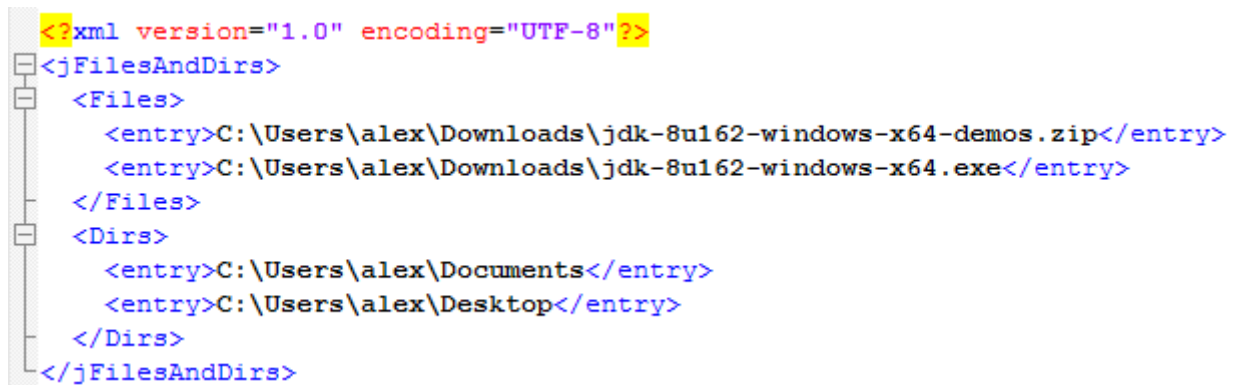
- MultiCopy: can load a single Group (files and dirs) from a MultiGroups structured format xml file;
  - can preserve file attributes (ACL, DOS, Basic, Posix, Owner, User-Def) during copy.
- Menu: can show System Properties via html file;
  - can turn-off pc from inside the app.

**NOTE :**

- you can use OS multiselect keys (CTRL or SHIFT) inside files and dirs request dialog box;
- both xml and txt file format can be created with the gui button "Save lists" in the middle bottom of the gui and opened with your preferred Notepad alike program (I'm using Notepad++, for example).

A couple of examples of the simple xml and txt file format follow.

## 1. xml file format (real example):



```
<?xml version="1.0" encoding="UTF-8"?>
<jFilesAndDirs>
  <Files>
    <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64-demos.zip</entry>
    <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64.exe</entry>
  </Files>
  <Dirs>
    <entry>C:\Users\alex\Documents</entry>
    <entry>C:\Users\alex\Desktop</entry>
  </Dirs>
</jFilesAndDirs>
```

## 2. txt file format (same example) always in UTF-8 (both versions are supported):

Files	[Files]
C:\Users\alex\Downloads\jdk-8u162-windows-x64-demos.zip	C:\Users\alex\Downloads\jdk-8u162-windows-x64-demos.zip
C:\Users\alex\Downloads\jdk-8u162-windows-x64.exe	C:\Users\alex\Downloads\jdk-8u162-windows-x64.exe
Dirs	[Dirs]
C:\Users\alex\Documents	C:\Users\alex\Documents
C:\Users\alex\Desktop	C:\Users\alex\Desktop

## 3. xml file in MultiGroups format (GroupCopy) – [handmade, can't be generated by the application] :



```
<?xml version="1.0" encoding="UTF-8"?>
<jFilesAndDirs>
  <Group>
    <Files>
      <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64-demos.zip</entry>
      <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64.exe</entry>
    </Files>
    <Dirs>
      <entry>C:\Users\alex\Documents</entry>
      <entry>C:\Users\alex\Desktop</entry>
    </Dirs>
  </Group>
  <Group>
    <Files>
      <entry>C:\Program Files (x86)\jMultiFilesAndDirsCopy\screenshot.jpg</entry>
      <entry>C:\Program Files (x86)\jMultiFilesAndDirsCopy\jMFaDC__MultiCopy__icon.ico</entry>
    </Files>
    <Dirs>
      <entry>C:\Users\alex\Documents</entry>
      <entry>C:\Users\alex\Downloads</entry>
    </Dirs>
  </Group>
</jFilesAndDirs>
```

## 4. xml file in MultiGroups structured format (GroupCopy) even for MultiCopy and DirLister – [handmade] :

```

<?xml version="1.0" encoding="UTF-8"?>
<jFilesAndDirs>
  <Group id="1" name="java">
    <Files>
      <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64-demos.zip</entry>
      <entry>C:\Users\alex\Downloads\jdk-8u162-windows-x64.exe</entry>
    </Files>
    <Dirs>
      <entry>C:\Users\alex\Documents</entry>
      <entry>C:\Users\alex\Desktop</entry>
    </Dirs>
  </Group>
  <Group id="2" name="pictures">
    <Files>
      <entry>C:\Program Files (x86)\jMultiFilesAndDirsCopy\screenshot.jpg</entry>
      <entry>C:\Program Files (x86)\jMultiFilesAndDirsCopy\jMFaDC___MultiCopy___icon.ico</entry>
    </Files>
    <Dirs>
      <entry>C:\Users\alex\Documents</entry>
      <entry>C:\Users\alex\Downloads</entry>
    </Dirs>
  </Group>
</jFilesAndDirs>

```

## 5. xml file format with SubDirs names only :

```

<?xml version="1.0" encoding="UTF-8"?>
<jFilesAndDirs>
  <SubDirs>
    <entry>Documents</entry>
    <entry>Downloads</entry>
    <entry>Music</entry>
    <entry>Pictures</entry>
    <entry>Videos</entry>
  </SubDirs>
</jFilesAndDirs>

```

## 6. txt file format with SubDirs names only (same example as before – both versions are supported) :

```

SubDirs
Documents
Downloads
Music
Pictures
Videos

```

```

[SubDirs]
Documents
Downloads
Music
Pictures
Videos

```

**NOTE :**

Adding ATTRIBUTES "id" and/or "name" to the "Group" TAGs the application will be able to create a comboBox from which the user can choose the Group to load in MultiCopy or in DirLister section from the MenuBar.

If no attributes will be found with the "Group" TAGs then the application will use only a simple counter according to the position of every Group in the xml file to identificate them within the comboBox.

**CMD LINE ARGS supported :** ( **NB:** cmd line args are case sensitive! )

<u>NOTE</u>	<u>ARGUMENT</u>		<u>DESCRIPTION</u>
(mandatory)	-MC		Ref. TAB "MultiCopy" (for future compatibility)
(mandatory)	One of the following:		Matching mode selection
	<u>(arg)</u>	<u>(def.)</u>	
	-mo	If older	
	-ma	always	
	-ms	skip	
(mandatory)	-l <file xml or txt with path>		Load config file (xml or txt with full path or in the same path of the main app exe)
(mandatory)	-c		Only copy sources to destinations
Use this option at your own risk	-d		Delete from disk every sources after copy
Instead both -c and -d options you can use this one	-m		Move sources instead of Copy
You can follow the whole batch mode execution in the app-gui but this option allow you to make a txt report for late control	-sl		Save log window as txt in append mode
To use if in batch mode you want more than one call to the app	-x		Exit app
No wait to pc shutdown	-shutdown		Shutdown pc at the end of the operations
If none of these is specified then 'no-checksum' control to copy will be applied by default	One of the following or none:		Checksum selection mode
	<u>(arg)</u>	<u>(def.)</u>	
	-crc32	CRC32	
	-md5	MD5	
	-sha1	SHA-1	
	-sha256	SHA-256	
-sha512	SHA-512		
If none of these is specified then 'no-attribs' mode to copy will be applied by default	One of the following or none:		Preserve attributes selection mode
	<u>(arg)</u>	<u>(def.)</u>	
	-allattr	ALL attributes	
	-aclattr	ACL	
	-dosattr	DOS	
	-basicattr	Basic	
	-ownerattr	Owner	
-userattr	User-Def		

**- example:**

1. jmultifilesanddirs-copy -MC -I test.xml -sha1 -mo -aclattr -c -sl -shutdown

(single mode: tab MultiCopy, load xml cfg file, sha-1 checksum, matching-mode if older, preserve ACL attributes, only copy and no delete src, save log window content and shutdown pc after finish).

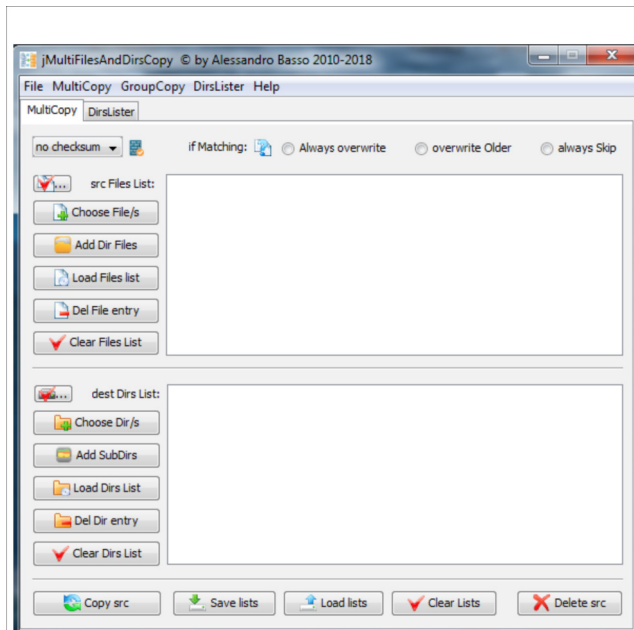
If the xml file is in MultiGroups format then all the groups will be copied one at a time in batch mode.

If the xml file contains only one group then it will be processed anyway.

A xml cfg file with only one group or no groups will be considered the same thing in MultiGroups section.

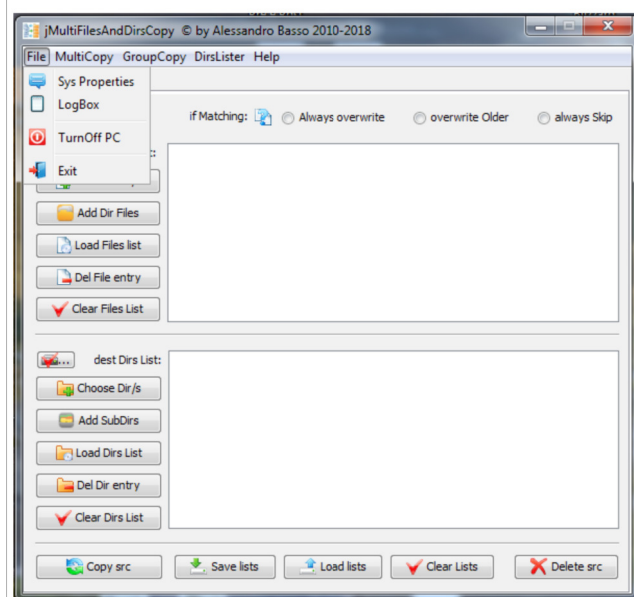


### Some screenshots with instructions



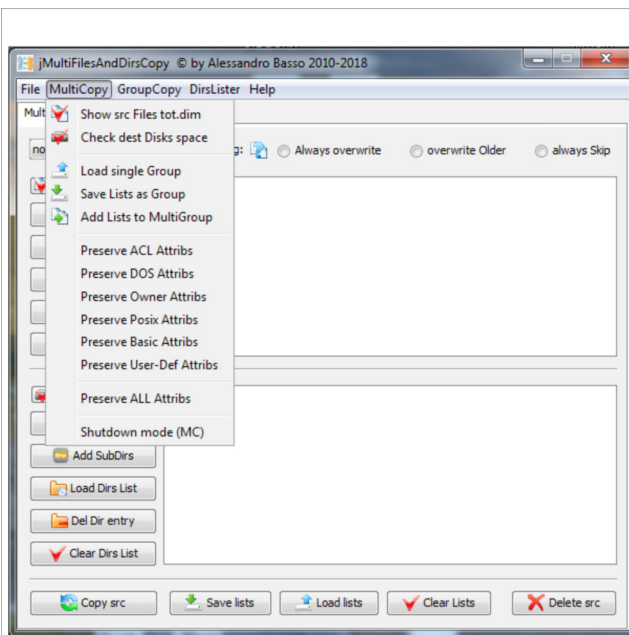
#### MC Main window (buttons)

- Choose File/s: choose the files entries for the source Files List (multiselect is supported)
- Add Dir Files: add all the files of a dir in the Files List (only the first level files of the dir)
- Load Files list: loads the files entries for the Files List from an external file (txt or xml)
- Del File entry: deletes a selected entry from within the Files List
- Clear Files List: delete all the entries from within the Files List
- Choose Dir/s: choose the dirs entries for the destination Dirs List
- Add SubDirs: add all the sub-dirs of a dir in the Dirs List (only the first level sub-dirs of the dir)
- Load Dirs List: loads the dirs entries for the Dirs List from an external file (txt or xml)
- Del Dir entry: deletes a selected entry from within the Dirs List
- Clear Dirs List: delete all the entries from within the Dirs List
- Copy src: starts the copy processed
- Save lists: saves both the Files and Dirs lists in an external file (txt or xml)
- Load lists: loads both the Files and Dirs lists from an external file (txt or xml)
- Clear Lists: delete all the entries in both Files and Dirs Lists
- Delete src: deletes all the files in the Files List from the disk (N.B.: not the entries from the Files list but the real files).



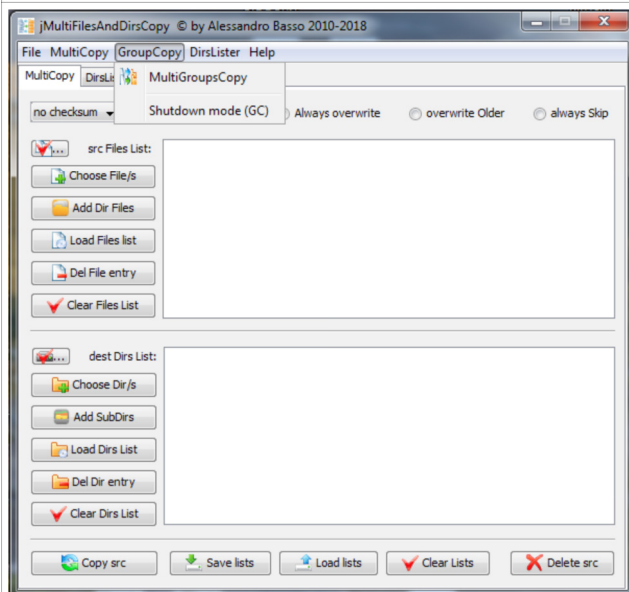
#### File menu

- Sys Properties : shows and saves as html file the JVM properties of your OS.
- LogBox : shows the LogBox window
- TurnOff PC: if you want to turn-off your pc directly from within the program.
- Exit : quits the program.



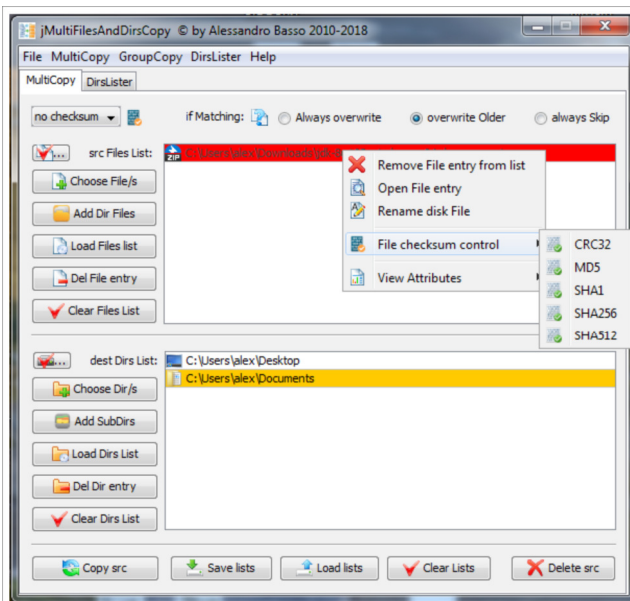
### MultiCopy menu

- Show src Files tot.dim: shows the total dimension of the source files in Files list
- Check dest Disks space: shows the free space in every disk in the paths of the Dirs list
- Load single Group: loads a single group (Files and Dirs) from a MultiGroup xml file
- Save Lists as Group: saves the lists (Files and Dirs) as a group in a new MultiGroup xml file
- Add Lists to MultiGroup: adds the lists (Files and Dirs) as a new group in an existing MultiGroup xml file
- Preserve xyz Attribs: preserves the corresponding attributes of the source Files during copy in the destination DirsLister
- Shutdown mode (MC): sets the shutdown of the PC after finishing copy; only for MultiCopy operations



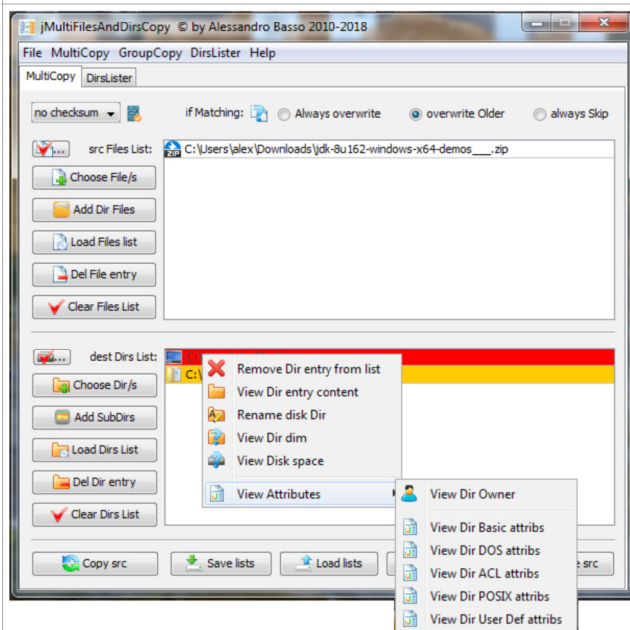
### GroupCopy menu

- MultiGroupsCopy: starts the MultiGroupsCopy process (load a structured xml file with the lists of the groups, files and dirs to copy); a sort of MultiCopy but for different groups
- Shutdown mode (GC): sets the shutdown of the PC after finishing copy; only for MultiGroupsCopy operation



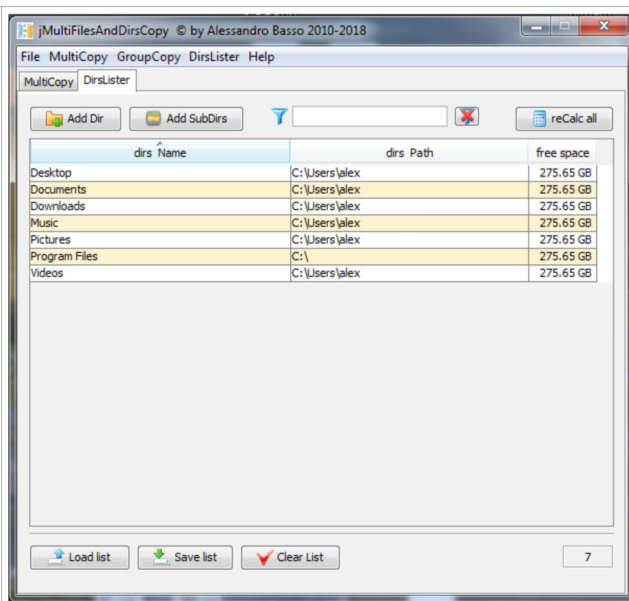
### Source Files List entry menu

- Remove File entry from list: removes the selected file entry from within the Files list
- Open File entry: tries to open/launch the selected real disk-file
- Rename disk File: renames the selected real disk-file
- File checksum control: shows the checksum of the selected real disk-file using one of the algorithm in this sub-menu
- View Attributes: shows the specific attributes of the selected real disk-file according to the type in this sub-menu



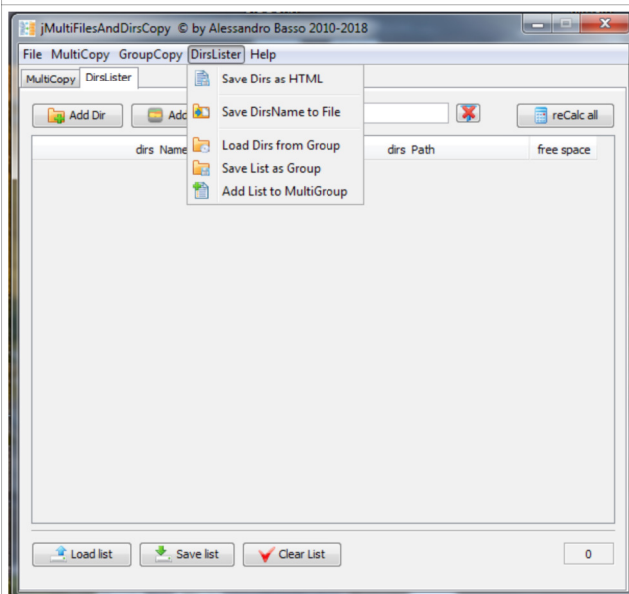
### Destination Dirs List entry menu

- Remove Dir entry from list: removes the selected dir entry from within the Dirs list
- View Dir entry content: tries to open the selected real disk-directory in a os-window
- Rename disk Dir: renames the selected real disk-directory
- View Dir dim: shows the disk space of the selected disk-directory
- View Disk space: shows the free disk space of the real-disk of the selected dir entry
- View Attributes: shows the specific attributes of the selected real disk-directory according to the type in this sub-menu



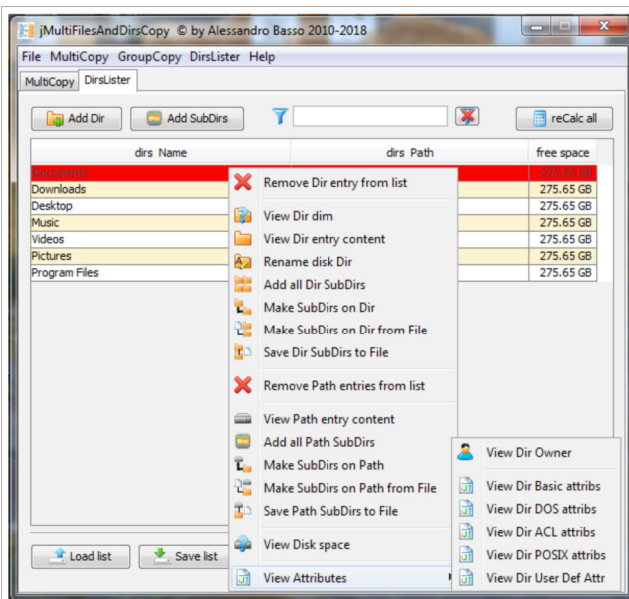
### DL Main window (buttons)

- Add Dir/s: add one or more dirs-entry to the list (multiselect is supported)
- Add SubDirs: add all the subdirs of a directory to the list (only the first level subdirs will be added)
- View Filter: set or reset the filter for viewing the directories list according to the sub-string inserted (as start, end or middle sub-string of the directories main name)
- reCalc all: re-calc the last column of the list, that is the free real-disk space (useful is used with the MC section of the program)
- Load list: load the dirs-entries from an external file (txt or xml)
- Save list: save the dirs-entries in an external file (txt or xml)
- Clear List: delete all the entries from the list
- N°: in the bottom right corner of the GUI there is the total number of entries shown in the list (according to the view-filter)



### Dirlister menu

- Save Dirs as HTML: saves the list of real-disk directories as an html file where the dir-names are active html link
- Save DirsNames to File: saves the list of dirs names (no path) into an external file (txt or xml)
- Load Dirs from Group: loads the list of dirs from a MultiGroups format external file (xml only)
- Save List as Group: saves the dirs-list into a new MultiGroups format external file (xml only)
- Add List to MultiGroup: saves the dirs-list into an existing MultiGroups format external file as new group (xml only)

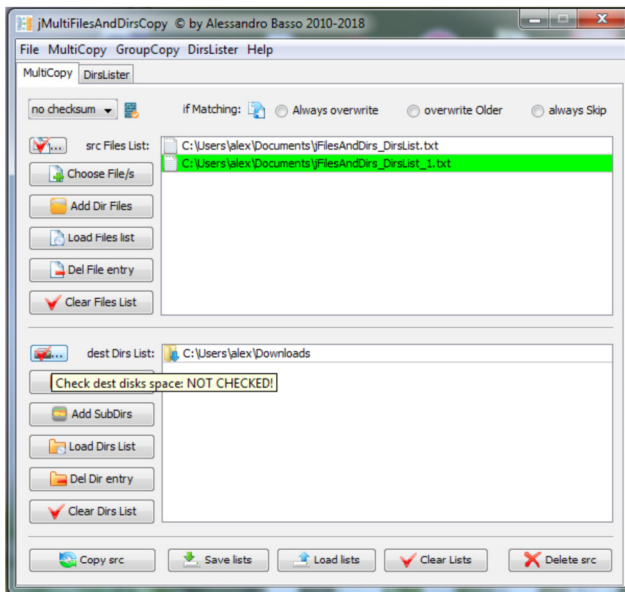


### DL Dirs List entry menu

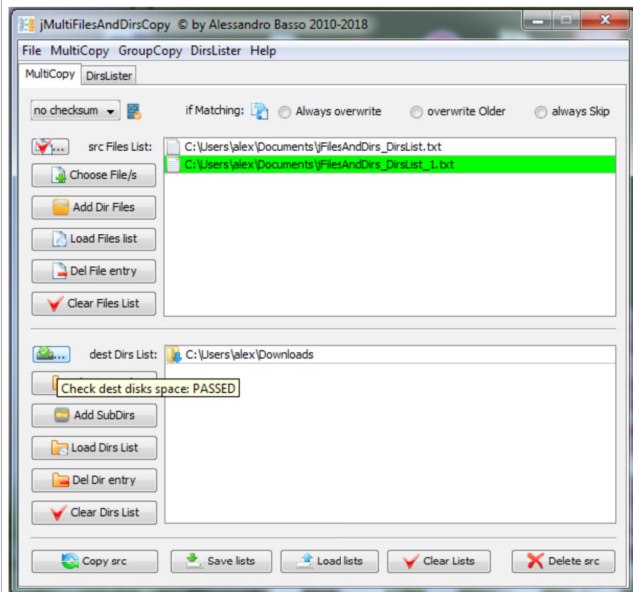
- Remove Dir entry from list: removes the selected entry from the list
- View Dir dim: shows the disk space of the selected real directory entry
- View Dir entry content: open the real disk-dir in an os-window
- Rename disk Dir: renames the real directory in the disk
- Add all Dir SubDirs: adds al the SubDirs of the selected dir entry to the list
- Make SubDirs on Dir: makes a subdir in the selected real disk-directory
- Make SubDirs on Dir from File: makes one or more subdirs in the selected real disk-directory from a list of dirs in an external file (txt or xml)
- Save Dir SubDirs to File: saves all the subdirs of the real disk-directory in an external file (txt or xml)
- Remove Path entries from list: removes all the entries with the same base path name of the selected entry from the list
- View Path entry content: open the real disk base path of the selected entry in an os-window
- Add all Path SubDirs: add all the dirs of the base path of the selected entry to the list
- Make SubDirs on Path: makes a subdir in the base path of the selected dir entry
- Make SubDirs on Path from File: makes one or more subdirs in the base path of the selected dir entry from a list in an external file (txt or xml)
- Save Path SubDirs to File: saves all the subdirs of the base path of the selected dir entry in an external file (txt or xml)
- View Disk space: shows the free space of the selected dir entry real-disk
- View Attributes: shows the attributes of the selected dir entry according to the type in this sub-menu



MultiCopy with the "Check destination disks space"  
NOT CHECKED (red icon):



MultiCopy with the "Check destination disks space"  
CHECKED / PASSED (green icon):



**IMPORTANT**

Please, if you use this software for your job/work, consider to support the author sending a donation using one of the following methods:

- a. PayPal: <https://www.paypal.me/AlexBss>
- b. Direct bank transfer (please, ask me for the bank references).
- c. If you are a shareware author, please consider to send me a personalized full key for one of your software.

Thanks.