

1 General

This is the English documentation for the program CrCheck. The file CRCHECK.DOC (or .PDF) contains the German documentation this is only a short extract. If you are familiar with German then please read the CRCHECK.DOC instead!

German Users: Bitte den Bestellschein in CRCHECK.DOC benutzen!

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2 Synopsis

CrCheck is a file-authentication program that may be used to check other programs for signs of tampering. CrCheck uses a 32-bit algorithm to generate Cyclic Redundancy Checks (CRC), which are then displayed for the user to compare with the known value for the program(s) validated. The 32-bit CRC checking provides a high degree of security and follows the ANSI x3.66 and FED-STD 1003 standards. Furthermore CrCheck checks the file length, file attributes and the file date and time stamps to provide a high security.

The known validation data can be published by the author of the program (as the file CRCHECK.TXT) or can be obtained from a trusted information database. Furthermore you can sign the CRCHECK.TXT file with your PGP key. CrCheck automatically recognizes the PGP part.

To confirm that a program is in its original, untampered state, simply run the CrCheck program on it. If the file CRCHECK.TXT exists, the program calculates the CRC checksum of the files and compares them against the checksums found in the CRCHECK.TXT files.

If the files are in their original state CrCheck will display --OK-- else CrCheck will display the old files CRC sum and the new (modified) calculated CRC.

3 Basics

To run CrCheck, type:

```
CrCheck
```

If the file CRCHECK.TXT exists all files will be verified, else CrCheck will display a short help.

To generate a CRC checksum, type

```
CrCheck [Drive:\] [path\] filespec
```

The calculated CRC sums will be shown on the screen.

To generate a CRCHECK.TXT file, type

```
CrCheck filespec > CRCHECK.TXT
```

Please remember: CrCheck WILL ONLY VALIDATE the programs if the file CRCHECK.TXT exists. You can rename the CRCHECK.TXT file to CRCHECK.CRC or -if you have renamed CRCHECK.EXE- to RENAMED.CRC!

E.g. If you have renamed CRCHECK.EXE to CRC.EXE, you can use the validation file CRC.CRC!

4 Parameters

[none]	Validates the files against the CRCHECK.TXT entries. If the file does not exist a short help will be displayed.
/? -? ?	Display a short help
file /c	Calculates the CRC for the specified file.
file /C=CRC	Compares the CRC from "file" against the CRC specified with the /c option. If the CRC is valid CrCheck will return the error level 0 to DOS else 20
/e	Displays the exit code ("Error level") if CrCheck ends abnormal.
/q	Quiet. No output is written, just only the return code (error level) is set by CrCheck.
/s	Generates a shorter list, without any head or tail.
/h	Exclude hidden files from being displayed or to be added to the file CRCHECK.TXT
/v	Force validating crcheck.txt against files. This is e.g. useful when using option -e too.
filespec	Wildcards are supported.

4.1 PGP/GPG Support

CrCheck has built-in PGP and GNU PGP support. You can sign the checksum file CRCHECK.TXT with PGP. CrCheck will detect the "BEGIN" and "END" section of the PGP key, thus avoiding false alarms! Two batch files are included that will do the work for you.

4.2 CrcTest

The file CrcTest can be used to check one single file against a pre calculated checksum. This is useful in batch files (see CHKDOS.BAT). Just run CrcTest to get an overview of the parameters and return codes. Note: You must use CrCheck first to calculate the checksum for CrcTest!

4.3 Error levels

CrCheck 4.25 and higher sets the DOS Error level (Exit code) due to the following conditions:

Kind of Event/Error	Error level
Displaying the help screen	0
All validated files are identical	0

Validated file with option /c is unchanged	0
Return codes from validating files	
-reserved- (no missing/changed files)	10
One file is missing	11
Two (12), three (13), four or more (14) files are missing	12, 13, 14
-reserved- (missing files, unchanged files)	15
One file has been changed	16
Two (17), three (18), four or more (19) files had been changed	17, 18, 19
Other Return codes	
Validated file with option /c has changed	20
No matching files found	21
CrCheck.Txt does not exist	22
Too many command line parameters	23
Can not change to directory "xxx"	24

5 Legal Terms And Disclaimer

5.1 Disclaimer

CrCheck basically has no legal guarantee and warranty because I do not want to become sued over it, and should be used "as is."

5.2 Documentation

Information in the documentation is subject to change without notice and does not represent a commitment on the part of ROSE SWE.

5.3 License – Shareware

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You may not list any of my products in advertisements, catalogs, or other literature that describes this product as 'FREE SOFTWARE'. This is 'Try-Before-You-Buy' software, it is not free!

6 Closing

There is no doubt that CrCheck can save you time, effort, energy and money. There are NO "run-time fees", "royalties" or anything of the type attached to the cost of CrCheck. Please use the file REGISTER.TXT to order a registered version of CrCheck! Please send the register form to my address, even if you have transferred the money to my account, because our address will often be unreadable on checks!

6.1 Registration

There is almost no difference between the registered and unregistered version of CrCheck except for the "beg remark". Along with registering CrCheck you will receive the newest currently available version of CrCheck! To register your copies of CrCheck please print out the file REGISTER.TXT. Additionally you will receive as a bonus some other Shareware programs developed by ROSE SWE!

Please note, that you must buy a special license if you want to include the registered version of CrCheck.EXE to your distribution package. Contact me for quantities or read the CrCheck.DOC file.

German users: Bitte die Datei CrCheck.Doc benutzen!

6.2 Updates

I am sure that I will made enhancements to CRCHECK in further releases. I you have any improvements write to the address below.

If there is enough interest in CrCheck (=registrations), the following options will maybe included in a further release:

Exclude certain file specs, e.g.: -x *.bak -x *.swap
Recursive file handling

So contact me if you want to see any enhancements in further versions of CrCheck!

6.3 My Address

ROSE SWE
Dipl.-Ing. Ralph Roth
<http://rose.rult.at>

Check the file REGISTER.DOC, ROSEBBS.TXT and ADRESSE.DOC for my address!

/*end*/