

SystemDiagnostics DOS

Operating system independent test and diagnostics software for customers

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Dear Customer,

Computers from Fujitsu Siemens Computers are produced taking the highest quality standards into account. They are not delivered to our customers until comprehensive function tests have been successfully completed.

However, should a function fault occur, Fujitsu Siemens Computers has provided in addition to the Windows based program *SystemDiagnostics*, a test and diagnostics tool in order to find out the problem with your computer. This program, called *SystemDiagnostics DOS*, is available as a so-called ISO image, from which you must create a bootable CD.

In order to create a bootable CD-ROM from the ISO image, you must have a suitable CD/DVD burn program installed on your PC. The burn functions integrated in Windows are not sufficient for this purpose.

This description of the burn procedure is based on NERO Essentials, Version 7.5.9.1(11710).



Information:

This procedure can differ if other programs or NERO versions are used.

Creating the diagnostics CD:

1. Extract the complete contents of the existing *SystemDiagnostics DOS* ZIP archive to a directory of your choice on your computer.
The ISO image of the diagnostic program and this help document are then in this directory.
2. Insert a blank writable CD-R in the CD/DVD RW drive.
3. Start the burn program by double clicking on the Nero Start Smart symbol on the desktop.
4. Select the disk type CD or CD/DVD.
5. Select from the top menu bar the option "Copy and save!".
6. Click on "Burn image to disk".
NERO automatically opens a list of the available ISO images in the directory "Own files"
7. Select the storage area to which you extracted the contents of the ZIP archive.
8. NERO now creates a bootable diagnostics CD
9. Insert this CD in the CD/DVD RW drive and follow the instructions on how to use *SystemDiagnostics DOS*.

Using the diagnostic tool *SystemDiagnostics DOS*:



Information:

As with every Windows-conforming program, *SystemDiagnostics DOS* can be operated via a mouse or keyboard.



Information:

We recommend printing this description as the PC must be switched off during the next steps. The description cannot be displayed in the diagnostic tool *SystemDiagnostics DOS*.

To test your PC with the diagnostics tool, start the PC with the *SystemDiagnostics DOS* -CD.

1. Close the operating system and start up the computer.
2. Immediately after the system new start, press F12 or F8 to enter the so-called multi-boot menu.
3. Use the arrow keys to select the CD-ROM or DVD-ROM drive.
4. Press ENTER.
5. The diagnostic program *SystemDiagnostics DOS* starts.



Information:

If the multiboot menu cannot be started using these function keys on your computer, please consult your computer manual or system BIOS to determine how to change the start sequence of the various drives on your computer. To execute the diagnostic program, the CD-ROM / DVD-ROM drive must be entered as the preferred start drive.

General information about DIFS16C:

The test and diagnostics program *SystemDiagnostics DOS* has two sections. The program supplies information about the hardware configuration and offers two test and diagnostic functions. If you start the test program called "Quick Test", information is provided about possible defective components. This test lasts a maximum of 5 minutes (depending on the hardware). If you start the test program called "Full Test", all the hardware is checked. The test lasts a maximum of 1.5 hours depending on the hardware configuration.

Diagnostic results:

Having completed the respective test (Quick or Full Test), one of the following two options appears on your screen:

"No problem found"

The test has been successfully concluded and no problems have been determined.

or

"DIFS code YXXX123456789123" (example)

Irregularities occurred during the test. For further clarification, please contact the Help Desk responsible for your country. Please have the ID / serial number of your system available and the DIFS code issued.

Integrated diagnostic module

System module	Analysis of runtime and post errors
Real-time clock	Checks real-time clock
System monitoring	Thermal monitoring and fan diagnostics
Processor	Processor diagnostics
Main memory	Main memory and second level cache test.
Graphics card	Check the video chips
Hard disk	Read test for IDE and SCSI hard disks
Optical drives	CD/DVD test, using MSCDEX (IDE and SCSI).
Serial and parallel ports	Connection diagnostics
Firewire IEEE 1394	Tests the communication with connected firewire devices
LAN adapter	Test with diagnostics modules from LAN chip manufacturers