

CPEXpert Product Update 99-2

This product update forwards updates to both software and documentation. The software update is Release 9.2.0 of CPEXpert. The release number indicates that it is the second release of 1999.

This release (1) provides support for OS/390 Version 2 Release 8 (V2R8), (2) provides enhanced data selection/reporting options and additional analysis for the CICS Component, (3) provides enhanced data selection/reporting for the WLM Component, (4) provides enhanced data selection/reporting for the MVS Component, (5) provides updated documentation on CD-ROM, and (6) corrects errors that have been reported.

Additionally, this product update announces the availability of the **DB2 Component** of CPEXpert.

- **OS/390 Version 2 Release 8.** OS/390 V2R8 was made Generally Available (GA) by IBM at the end of September. Since Computer Management Sciences is a Partner in Development with IBM, I normally can provide support for new releases of MVS within 30 days of GA of the new IBM release.
 - All CPEXpert components have been updated to provide support for OS/390 Version 2 Release 8.
 - All CPEXpert documentation has been updated with references to applicable OS/390 Version 2 Release 8 documents from IBM.

Recall that all references in CPEXpert documentation refer to IBM documents contained in IBM BookManager format. I will be happy to provide a cross-reference to hard-copy of IBM documents if any user does not have access to IBM documents in BookManager format.

- **Update the CICS Component.** The CICS Component has been updated in the following areas:
 - Add a new rule to analyze whether the value of the DSHIPINT value in the System Initialization Table (SIT) might be too large.
 - Add a new rule to analyze whether more than one string was specified for VSAM ESDS files that have only write activity.
 - Add a new rule to analyze whether VSAM ESDS files have a mixture of read and write activity, but that are *primarily* write-only, and should have two file definitions specified.
 - Add a new rule to analyze whether SUBTSKS=1 was specified in the System Initialization Table.
 - Add a new rule to analyze whether CICS waited for a logger "structure full" condition for log streams residing in a coupling facility.
 - Add a new rule to analyze whether CICS waited for a logger "staging data set full" condition for DASD-only log streams.

Technical Note: IBM's *CICS Performance Guide* for CICS/Transaction Server for OS/390 Release 1.3 has been considerably enhanced with recommended analysis and suggested changes for CICS/TS Release 1.3. Many of these enhancements are applicable to all releases of CICS/TS, and some of the enhancements are applicable to CICS/ESA Release 4.1. The above improvements to CPEXpert reflect these enhancements to IBM's *CICS Performance Guide*.

- **Update the WLM Component.** The WLM Component has been updated in the following areas:
 - Provide the ability to specify analysis guidance for individual structures in a coupling facility. The guidance variables for structures normally are globally applied during CPEXpert's analysis of structure performance. These global guidance variables might not be applicable to some structures, however. With this change, guidance can **optionally** be applied to specific structures.
 - Add an option to suppress the analysis and findings of particular rules. This feature typically is desired by users who (1) have an overall disagreement with the finding, (2) are unable to make a suggested change, or (3) decide that a particular finding is inapplicable to a their environment.
 - Correct code to account for errors discovered in IBM's SMF documentation.
 - Correct documentation and code based on errors reported by users.

Technical Note: Some CPEXpert users have implemented the WLM-managed initiators option available with Goal Mode. CPEXpert does not yet analyze performance implications of the WLM-managed initiators because it is difficult to distinguish jobs that are JES-managed from those that are WLM-managed. Only SMF Type 26 records currently contain any distinguishing information. Few sites collect SMF Type 26 records and the SMF Type 26 records might not even be available during a day's SMF data (these are Job Purge records and jobs often extend beyond a single day).

I have asked IBM to place an indicator in the SMF Type 30 (Interval) records so that CPEXpert can distinguish between JES-managed and WLM-managed initiators. I believe that the SMF30WMI variable will be available in SMF Type 30 records beginning with OS/390 Version 2 Release 9. If the promised SMF30WMI variable does appear in this release of OS/390, CPEXpert will be enhanced to include analysis of performance problems related to WLM-managed initiators in CPEXpert Release 10.1, to be issued in April 2000.

- **Update the MVS Component.** The MVS Component has been updated to provide the ability to specify analysis guidance for individual structures in a coupling facility. The guidance variables for structures normally are globally applied during CPEXpert's analysis of structure performance. These global guidance variables might not be applicable to some structures, however. With this change, guidance can **optionally** be applied to specific structures.
- **Provide documentation on CD-ROM.** This release provides all updated documentation to reflect references for OS/390 Version 2 Release 8. The CPEXpert documentation is accessible via Adobe Acrobat Reader, and the CD-ROM contains a free copy of Adobe Acrobat Reader. The Adobe Acrobat Reader should be installed on your PC under Windows 3.1, Windows 95, Windows for Workgroups, or Windows NT⁽¹⁾. Installation of the Reader will require about 6 megs of space on your hard drive.

There is no additional charge for the CD-ROM versions of CPEXpert documentation. If any user does not have the capability to access documentation on CD-ROM (or simply prefers to have hard-copy documentation), please give me a call.

- **Correct errors that have been reported.** I've added a new member titled SOURCE(GENERR91) which contains a listing of the errors that were discovered in CPEXpert code for Release 9.1, and an acknowledgment of the user who found the error.

I **really** appreciate calls from users reporting problems or simply asking questions. As I said in the original delivery letter for CPEXpert, if errors occur with your installation, please don't waste your time trying to solve the error. Just give me a call and I will quickly fix the problem!

- **DB2 Component of CPEXpert.** The DB2 Component of CPEXpert has finally been developed! I have been researching DB2 performance problems for the past several years, and I had a DB2 Component of CPEXpert partially developed this time last year. Sadly, the DB2 Component languished while I devoted my time to other development areas.

Early this year, Bill Hatcher of the Department of Veterans Affairs (a long-time user of CPEXpert) finally motivated me to complete the DB2 Component. Once I started testing the DB2 Component, Bryant Osborn (NationsBank, that later merged with BankofAmerica) kindly provided me with lots of DB2 test data. Thanks Bill. Thanks Bryant.

The bottom line is that the DB2 Component of CPEXpert now is ready to analyze performance constraints to DB2 at your shop. I've enclosed a marketing glossy that highlights the analysis done by the DB2 Component.

Installation

I suggest that you use the following steps to install Release 9.2.0:

- Create a new PDS titled "prefix.CPEXPRT.V92.SOURCE".
- Create a new PDS titled "prefix.CPEXPRT.V92.USOURCE".
- Install CPEXpert into the "prefix.CPEXPRT.V92.SOURCE" using the normal installation procedures described in the *CPEXpert Installation Guide*.
- Copy your **old** USOURCE members into "prefix.CPEXPRT.V92.USOURCE". This step should be done so you do not have to recreate all of your unique parameters. There are no changes to the variables in USOURCE members, unless you are exercising new options provided with this code.
- If you elected to receive updates to CPEXpert on diskette, the software is distributed on the CD-ROM that contains the CPEXpert user documentation. I have created a BAT file for you so that you can easily upload the new software. This file is titled "UPLOAD.BAT" and will be located in the SOFTWARE directory of the CD-ROM. The BAT file was created per your instructions (i.e., using SEND, etc.).

Thanks

I would like to say "**Thank you**" to the following individuals. These folks have discovered errors, proposed new features, or suggested documentation changes since the last Update Bulletin:

Glen Bowman (Wakefern Food Corporation, NJ)

Dave Cogor (US Department of Transportation)

David Ehresman (University of Louisville, KY)

Paul Gordon (NationsBank, VA)

Bill Hatcher (Department of Veterans Affairs, TX)

Lisa Major (Halifax, Plc, United Kingdom)

Alex Benny Nielsen (TELE-DANMARK, Denmark)

Bryant Osborn (BankofAmerica, VA)

Harald Seifert (HUK-Coburg, Germany)

WEB site

Please visit my web site (www.cpexpert.com) for information about CPEXpert. I post answers to frequently asked questions, errors reported by users for the current release of CPEXpert, and information about CPEXpert components that you might not license.

Additionally, I've posted several papers on the web site that I've presented at professional conferences.

Please call, fax, or send me a note on the Internet if you have suggestions, you want new features, or you would like to see more or different reporting done by CPEXpert.

Best regards,

Don Deese

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Last updated by [Don Deese](#) on 11/16/99.