

## Operational Notes for FOCUS Version 7.0 Release 9

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FOCUS Area	System	Description
AUTOINDEX	CMS MVS	IF/WHERE tests with RECORDLIMIT disables the AUTOINDEX feature.
ALLOCATIONS	CMS MVS	AUTOINDEX is now supported with External Index databases.
	MVS	FOCUS no longer performs a catalog search in order to dynamically allocate FOCUS files with 'prefix.mfd_name.focus'. This new behavior yields a FOC036 NO DATA FOUND FOR FILE error when the file is not allocated prior to TABLE, MATCH, and GRAPH commands.
ANALYSE	CMS MVS	Large packed fields are not supported with the ANALYSE command.
	CMS MVS	ANALYSE is now fully Y2K compliant when using Smart Dates. Legacy dates that include the century are not supported.
AUTOTABLEF	CMS MVS	This feature, formerly available only with HiperFOCUS, is now available as part of 7.0 FOCUS. This improves performance by avoiding the creation of an internal matrix whenever FOCUS can automatically convert a TABLE request into a TABLEF request. The default is set ON.
BATCHECHO	CMS MVS	BATCHECHO is a new FOCUS set command that prevents the echoing of your FOCEXEC in your SYSPRINT or SYSOUT files. SET BATCHECHO=OFF disables this behavior only printing the release header and report output.
COMPILE	CMS MVS	FOCCOMPs created in Version 7.0 Release 8 may not be run in prior FOCUS releases. FOCCOMPs created in releases prior to 7.0.8 may be run in Version 7.0 Release 8. FOCCOMPs are upwardly compatible between FOCUS releases, but not downwardly compatible.
COMPILE	MVS	<p>MODIFYs compiled for use with Static SQL in prior releases of FOCUS must be recompiled with the Interface STATIC setting ON or NOBIND in order to execute them in Version 7.0. If NOBIND is used, a new DB2 BIND must also be performed.</p> <p>Precompiled MODIFYs that update FOCUS databases, FOCCOMPs, need not be recompiled for Version 7.0.</p> <p>Precompiled MODIFYs prior to Version 7.0 Release 6 when run with SET DEFCENT, YRTHRESH or file and field level settings of DFC, YRT yield a (FOC1886) ERROR: focexec FOCCOMP NEEDS CENTURY INFO. PLEASE RECOMPILE message. Compiling the focexec in Version 7.0 Release 6 yields a (FOC1885) WARNING: MODIFY USES CENTURY INFO. WILL NOT RUN BELOW 7.0.6 message.</p> <p>Running a FOCCOMP in releases prior to 7.0.6 that has been compiled with SET DEFCENT or YRTHRESH, yields a (FOC548) INVALID VERSION. RUN CANNOT BE EXECUTED. RECOMPILE error. FOCCOMPs that include file and field level settings yield a (FOC306) DESCRIPTION ERROR. MASTER FILE ATTRIBUTE NOT RECOGNIZED: FDFC when run in releases prior to 7.0.6.</p>

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Dates Year 2000	CMS MVS	The file default century (FDFC) and year threshold (FYRT) settings will be taken from the host MFD when used in a JOIN.
DB2 Interface	MVS	New optimization logic for FST. and LST. operators may change report line sequences for applications that rely on key field sorts of the answer set. This may effect the first or last record returned. To invoke prior behavior issue the command, SET OPTIMIZATION FOCUS.
DB2 Interface and SQL/DS Interface	CMS MVS	Static compile of MODIFY MATCH requests with the WITH-UNIQUES option is not supported.
DB2 Interface	MVS	In section 7.2.3 of the DB2 Read/Write Interface User Manual R7.0, NOTE: During report generation, the SUM and COUNT display commands, and prefix commands (AVE., MAX., or MIN.) will not include missing data in their computation when the field has the MISSING attribute in the Master File.
Dialogue Manager	CMS MVS	The variable &READS now represents the number of I/Os to satisfy a query against a file. Previously this value was equated to the number of records returned.
	CMS MVS	Truncation of leading zeros in dialogue manager strings may be avoided by using the new SET command, SET LEADZERO=ON/OFF. OFF is the default setting which retains truncation of leading zeros.
	MVS	-WRITE ddname in a Dialogue Manager loop requires a DYNAM CLOSE to the ddname before the changes are reflected in the data set that ddname is allocated to.
External Sort	CMS MVS	TABLE, MATCH, and GRAPH commands can now employ external sort utilities to sort large queries. If inadequate disk space is allocated for the SORTWORK data sets, a (FOC909) CRITICAL ERROR IN EXTERNAL SORT CODE:16 may occur.  A new SET command, SET ESTRECORDS=n is available. This allows for a better estimation of SORTWORK space and may eliminate FOC909 CODE:16 errors. See New Feature Bulletin 552 for complete details.
	CMS	When using the CMS/SYNCSORT utility SET ESTRECORDS=n is ignored by SYNCSORT. Therefore, no estimation of sortwork areas is done.
	CMS MVS	The prompts have changed for the ADD option when issuing a REBUILD EXTERNAL INDEX ADD command.
FOCUS CLIENT	CMS MVS	Mainframe Focus can be configured as a client to EDA. It can communicate via LU6.2 and/or TCP/IP protocols. Documentation pertaining to this functionality can be found in the following New Feature and Technical Memo documents: <ul style="list-style-type: none"> <li>• NF494 MF Focus as a Client to EDA</li> <li>• TM7942 FOCUS Client: New USAGEFORMAT Setting for HOLD files</li> </ul>

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		<ul style="list-style-type: none"> <li>TM7946 FOCUS Client: SET NOREMOTEECHO</li> </ul>
FOCPARM ERRORS	CMS MVS	This file which also existed in release 6.8 is required for Version 7.0 Release 8. It can be used to change any default FOCUS settings. It supports only the FOCUS SET command.
FOCSAM Interface	CMS MVS	FOCSAM=OLD is no longer supported. If this command is entered a (FOC324) UNRECOGNIZED SET COMMAND error results.
FOCSAM Interface	CMS MVS	The FOCSAM ERRORS file displays complete error text via query error number. Example, '? 1130'.
GRAPH	CMS MVS	The GRAPH command now supports new date formatted fields.
LE/MVS - Subroutines	MVS	Subroutines compiled with the IBM Language Environment 370 compiler can't be called from a compiled MODIFY (FOCCOMP) in any release prior to R7.0.8.
IUCV	CMS	<p>We now support the IUCV communications protocol for CMS SU. Performance benefits are realized with the IUCV protocol as the master processor is no longer serially enqueued.</p> <p>IUCV requires an update to the SU machine's directory entry. Insert 'IUCV ALLOW' into the directory entry to enable the IUCV communication path. This command may only be inserted into the directory entry from a id which has DIRMAINT privileges.</p>
IDMS/SQL	MVS	The new IDMS/SQL install guide is available with TM7927. This document replaces appendix D of the user guide.
IMS	MVS	The IMS interface has implemented IMS Checkpoint processing that will impact users of Fast Path databases in addition to PSBs which specify PROCOPT=A. TM7936 documents this behavior.
IDMS/SQL	MVS	Earlier releases of the Interface would not respect an IDMS isolation level other than the IDMS default of Read Write (RW). FOCUS Version 7.0 Release 7 respects other user specified isolation levels such as Read Only.
MASTER=NEW	CMS MVS	<p>Fusion requires a new Master File syntax. This syntax is parsed internally with a new master file parser. This parser is OFF by default. For use with Fusion it must be activated with the set command, SET MASTER=NEW. The new master file parser has the following requirements:</p> <ul style="list-style-type: none"> <li>The keywords FILE, FILETYPE, ACCESSFILE, CLASSNAME, CLASSKEYS, FIELDNAME must be coded in this order to avoid (FOC1822) WARNING INVALID SYMBOL parsing errors. The old master file parser didn't enforce a specific order for parsing of these keywords.</li> <li>'FIELDNAME=' , 'ENCRYPT=' and 'SEGNAME=' syntax yields a (FOC1822) error with the new master file parser.</li> <li>ACTUAL, USAGE, FIELTYPE, INDEX and FORMAT keywords may not be enclosed in single quotes, e.g.: 'ACTUAL=A10'. This will result in a (FOC1822) WARNING INVALID SYMBOL &gt;FORMAT A10&lt; error message.</li> <li>HELPMESSAGE 'THIS IS MY HELPMMSG' must have the text of the help message enclosed in single or double quotes to</li> </ul>

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		avoid a (FOC1822) parsing error.
MAINTAIN	CMS MVS	<p>The new date functions DATEADD, DATEDIF, and DATEMOV may be used in MAINTAIN applications with an extra parameter: the result field.</p> <p>For example:</p> <p>In MAINTAIN, the application developer can code:</p> <p>Compute ADATE/YYMD = ... (some expression) Compute DUE_DATE/YYMD = DATEADD (ADATE, 'BD', 20, DUE_DATE);</p> <p>Compute NOTICE_DATE/YYMD = DATEMOV (DUE_DATE+1, 'EOM', NOTICE_DATE);</p> <p>Compute TOTAL_DAY/I4 = DATEDIF (ADATE,NOTICE_DATE,'BD',TOTAL_DAY);</p>
MODIFYTALK	CMS MVS	MODIFYTALK is not currently supported for long fieldnames.
National Language Support	CMS MVS	The MODIFYTALK,FMMENU,SHELPROF utilities have not been translated for NLS support.
	CMS MVS	The command 'SET LANG=lang' when used in conjunction with the Web Interface for FOCUS will display errors in the native language. It will also display .GIF buttons in that native language for French, Spanish, Swedish and German.
Oracle Interface	CMS MVS	The default for the INSERTSIZE array blocking factor has been changed from 20 to 1 (no blocking). The default for the FETCHSIZE array blocking factor remains 20.
ON TABLE SET	CMS MVS	<p>Prior to Version 7.0 Release 5 'ON TABLE SET parm = value' syntax was ignored. With Version 7.0 Release 5 a new error message, (FOC36218) AN EQUAL SIGN (=) IS INVALID IN ON TABLE SET appears. Also, partial syntax for this command (e.g.: ON TABLE SET PAUSE) yields a (FOC36217) INCOMPLETE ON TABLE SET SYNTAX error.</p> <p>The FOCEXEC that generated these error messages will not be executed. A (FOC009) INCOMPLETE REQUEST STATEMENT error will display.</p>
PA1 (SYS-ATTN)	MVS	<p>When interrupting FOCUS retrievals with a PA1 (SYS-ATTN) command, choosing FX (Terminate FOCUS) results in an IKJ56641I USER ABEND CODE 0000 REASON CODE 00000000.</p> <p>This command was ignored in all releases prior to FOCUS Version 7.0 Release 1.</p>
Performance	CMS	Users may expect to see an approximate 5%-7% gain in overall CMS FOCUS performance. This was made possible by changes to the way FOCUS manages memory usage.

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RECTYPE	CMS MVS	<p>Creating a HOLD Master File from a request which PRINTs a RECTYPE field now writes</p> <p>FIELD=' RECTYPE' into the Master. We no longer perform an implied IF test on the RECTYPE fields ALIAS value when TABLEing the HOLD Master. FOCUS generates the ALIAS value Enn based on the position of the field within the request. This value won't match the data in the HOLD file. In the past this would yield reports with RECORDS and LINES count of 0.</p>
Redefines/Interfaces	CMS MVS	<p>Redefined fields are supported for all relational interfaces, IMS, and IDMS interfaces only.</p>
SET TEMP=disk	CMS	<p>The default temporary disk set by FOCUS at initialization will not be a Shared File System (SFS) directory. This is done in order to prevent additional I/O associated with SFS.</p>
Simultaneous Usage	MVS	<p>The IBI Subsystem and FOCUS SVC are mutually exclusive. If communications are attempted between them a (FOC542) SU. COMMUNICATION IS NOT AVAILABLE TO CENTRAL DATABASE MACHINE: error occurs.</p>
SQL Translator	CMS MVS	<p>In order to use the SQL Translator with KANJI, you must SET LANG = JPE.</p>
Static TABLE	MVS	<p>A DB2 TABLE with option INTERPRET will cause an abend.</p> <p><a href="#">SQL SQLDS COMPILE TABSTA21 -OPTION(INTERPRET)</a></p>
TABLA Installation	MVS	<p>The csect TABLA which customizes the default allocations of temporary files has a new install process. Please refer to new feature bulletin 607 for complete details.</p> <p>If you install using JCL from prior releases your changes will not take effect. No warning diagnostic is generated.</p> <p>We have also changed all the default sizes from tracks (TRK) to cylinders (CYL).</p>
TABLE	CMS MVS	<p>TABLE requests that contain the SUM verb and use an external sort enjoy performance gains in CPU time from 5%-15% due to aggregation optimization. These gains are achieved by passing aggregated records to an external sort avoiding the FOCUS merge process. The request must contain the SUM verb and ask for sorting (BY fld). Multi-verb requests are not optimized in this fashion.</p>
TABLE	CMS MVS	<p>Format conversion errors when reading a SUFFIX=FIX file now yield an error msg, (FOC1346) : FORMAT ERROR: Record n, Column n</p>
TABLE	CMS MVS	<p>A new set command PRINTPLUS=ON/OFF is available. This command affects report output for both HOTSCREEN and OFFLINE printing.</p> <p>Differences may be seen in the following areas: A decrease in the number of report pages as blank lines are suppressed. SUMMARIZE and RECAP in the same request print both values and not just the RECAP value. SUBFOOT and FOOTING in the same request print the SUBFOOT text prior to the FOOTING text. SUBTOTAL and SUBFOOT in the same request now prints the SUBFOOT text prior to the SUBTOTAL value.</p>

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TABLE	CMS MVS	Retrieval from a SUFFIX=FIX will build the logical record to be retrieved by using the sum of the ACTUALs coded in the MFD and compare it to the physical LRECL of the allocated file. In release 6.5.8 and earlier the physical LRECL of the allocated FIX file determined the length of the logical record to be retrieved. This change in R7.0 may affect how reports are displayed. Earlier releases would display a report that had extra characters per printed record in order to equal the length of the LRECL. Now truncation may occur based on the length of the ACTUALs coded in the Master File.
TABLETALK	CMS MVS	A new option has been added to TABLETALK, SAVE ON CLIENT.
Web Interface	MVS	<p>Web Interface uses a default ddname of 'TEMPTAB' to write HTML-formatted FOCUS reports. The default space allocation for this file is 5,5 TRACKS. On large reports, it is possible that this space will be insufficient resulting in B37 abend. If this occurs, then ddname TEMPTAB can be pre-allocated (e.g., in the FOCUS CLIST or via the DYNAM command) with more space.</p> <p>The HTML files used by Web Interface must have an LRECL=80 and RECFM=F. Please be certain to use these DCBs for all HTML files otherwise unexpected results may occur.</p>
Web Interface Server	CMS MVS	When using the Web Interface Server to access VM FOCUS applications, it is recommended that you do NOT modify the defaults on the CP attribute 'TERMINAL LINESIZE' or you may get sporadic failure of PFKeys on the translated 3270 screens.
	MVS	If you are using Emulation mode in the WEB Interface Server and Microsoft's Internet Explorer, please make the following change to member SCR3270 in the HTM library of the WEB Interface Server. In the embed tag, change 'post=no' to 'post=yes'. This will eliminate Cache problems associated with Microsoft's Internet Explorer.
	MVS	If you are running both WebFOCUS and Web Interface on the same WEB390 Server, the adhoc tools (Report Assist and Graph Wizard) can only be used for either Web Interface or WebFOCUS (not both). Using the ad hoc tools with BOTH products requires a dedicated WEB390 server for each product.
	MVS	Drill-down is not yet available for GRAPHS. This will be implemented in the next release.