

Section 4: Files used by CPExpert

This section identifies the files used by the various components of CPExpert. For many sites, the required files will naturally be a part of the normal performance data base (PDB) retained at the site. A few sites might have to modify the SMF parameters so SMF records the required record types, or might have to modify the PDB update process so the required SAS data sets are retained in the PDB.

This section is divided into two chapters: (1) files required when processing a MXG performance data base and (2) files required when processing a NeuMICS performance data base.

Chapter 1: Files required when processing a MXG PDB

This chapter identifies the files used when processing a MXG performance data base

Please note that some of the optional files are not routinely produced by MXG when executing the MXG BUILDPDB, and some files are not normally written to a performance data base by MXG.

- **CICS files.** If you use the CICS Component of CPEXpert, you should make sure that the CICS files produced by MXG are copied to your performance data base. One way of accomplishing this is to use a PROC COPY after executing BUILDPDB:

```
%INCLUDE SOURCLIB(BUILD PDB); /* BUILD PDB */
PROC COPY IN=WORK OUT=PDB; /* COPY CICS FILES TO PDB */
SELECT CICS;
```

- **TYPE42DS files.** If you use the DASD Component of CPEXpert, and you wish CPEXpert to analyze VSAM performance problems or you wish CPEXpert to produce data set information related to devices, you must provide the TYPE42DS file to CPEXpert. The TYPE42DS file is not normally produced by MXG. You must make sure that MXG produces the TYPE42DS file, and then must place that file into your performance data base. One way of accomplishing this is to include the MXG TYPE42 module, and use a PROC COPY after executing BUILDPDB:

```
%INCLUDE SOURCLIB(BUILD PDB); /* BUILD PDB */
%INCLUDE SOURCLIB(TYPE42); /* PROCESS TYPE 42 RECORDS */
PROC COPY IN=WORK OUT=PDB; /* COPY TYPE42DS FILES TO PDB */
SELECT TYPE42DS;
```

- **TYPE64 files.** If you use the DASD Component of CPEXpert and you wish CPEXpert to analyze VSAM performance problems, you must provide the TYPE64 and TYPE64X files to CPEXpert. These files are not normally produced by MXG. You must make sure that MXG produces the TYPE64 and TYPE64X files, and then must place the files into your performance data base. One way of accomplishing this is to include the MXG TYPE64 module, and use a PROC COPY after executing BUILDPDB:

```
%INCLUDE SOURCLIB(BUILD PDB); /* BUILD PDB */
%INCLUDE SOURCLIB(TYPE64); /* PROCESS TYPE 64 RECORDS */
PROC COPY IN=WORK OUT=PDB; /* COPY TYPE64 FILES TO PDB */
SELECT TYPE64;
```

- **TYPE88 files.** If you use the WLM Component, the CICS Component (at CICS/TS), or the MVS Component of CPEXpert, you should provide the TYPE88 file to CPEXpert, so CPEXpert can analyze potential system logger problems. The TYPE88 file is not normally produced by MXG. You must make sure that MXG produces the TYPE88 file, and then must place that file into your performance data base. One way of accomplishing this is to include the MXG TYPE88 module, and use a PROC COPY after executing BUILD PDB:

```
%INCLUDE SOURCLIB(BUILD PDB); /* BUILD PDB */
%INCLUDE SOURCLIB(TYPE88); /* PROCESS TYPE 88 RECORDS */
PROC COPY IN=WORK OUT=PDB; /* COPY TYPE88 FILES TO PDB */
SELECT TYPE88;
```

Chapter 1.1: Files used by the WLM Component

The following table identifies the files used by the WLM Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
Type 30	TYPE30_1	Optional.
Type 30	TYPE30_5	Optional
Type 30	TYPE30_V	Optional.
Type 30	DASD30DD	Optional: CPEXpert modification to MXG.
Type 70	TYPE70	
Type 70	TYPE70PR	
Type 71	TYPE71	
Type 72	TYPE72GO	
Type 72	TYPE72DL	
Type 72	TYPE72SC	
Type 74	TYPE74	
Type 74	TYPE74CF	Optional: Required for coupling facility analysis.
Type 74	TYPE74ME	Optional: Required for coupling facility analysis.
Type 74	TYPE74PA	Optional: Required for coupling facility analysis.
Type 74	TYPE74ST	Optional: Required for coupling facility analysis.
Type 74	TYPE74SY	Optional: Required for coupling facility analysis.
Type 75	TYPE75	
Type 88	TYPE88	Optional: Required for system logger analysis

Chapter 1.2: Files used by the DB2 Component

The following table identifies the files used by the DB2 Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
	DB2STATS	
Type 100 (Subtype 0)	DB2STATR	Applies only for DDF analysis
Type 100 (Subtype 1)	DB2STATB	
Type 100 (Subtype 1)	DB2GBPST	Applies only for data sharing analysis
Type 100 (Subtype 3)	DB2GBPAT	Applies only for data sharing analysis
Type 100 (Subtype 2)	DB2STAT2	
Type 101	DB2ACCT	Optional - some rules will be suppressed if not available
Type 102	T102S106	Optional, but highly recommended
Type 102	T102S172	Optional, but highly recommended
Type 102	T102S196	Optional, but highly recommended
Type 74	TYPE74ST	Optional, required for data sharing analysis

Chapter 1.6: Files used by the CICS Component

The following table identifies the files used by the CICS Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
Type 110	CICAUTO	
Type 110(4)	CICCF56D	Optional; used with CFDT analysis
Type 110(4)	CICCF57D	Optional; used with CFDT analysis
Type 110(4)	CICCF58D	Optional; used with CFDT analysis
Type 110(4)	CICCF59D	Optional; used with CFDT analysis
Type 110	CICCONMR	
Type 110	CICCONSR	
Type 110	CICCONSS	
Type 110	CICDB2GL	Optional; used with CICS-DB2 Connect analysis
Type 110	CICDB2RE	Optional; used with CICS-DB2 Connect analysis
Type 110	CICDLIT	
Type 110	CICDQG	
Type 110	CICDS	
Type 110	CICDTB	
Type 110	CICFCR	
Type 110	CICJCR	N/A with CICS/TS
Type 110	CICLDR	
Type 110	CICLGR	N/A with CICS/TS
Type 110	CICLGS	Applicable with CICS/TS
Type 110	CICLSRFR	
Type 110	CICLSRR	
Type 110	CICNQG	
Type 110	CICRMG	
Type 110	CICSDG	

Type 110	CICSMDSA	
Type 110	CICSMT	
Type 110	CICTC	N/A with CICS 4.1 and above
Type 110	CICTCR	
Type 110	CICTCLR	N/A with CICS 4.1 and above
Type 110	CICTSQ	
Type 110	CICTSR	N/A with CICS 4.1 and above
Type 110	CICVT	
Type 110	CICXMC	Applicable with CICS 4.1 and above
Type 110	CICXMG	Applicable with CICS 4.1 and above
Type 110	CICXMR	Applicable with CICS 4.1 and above
Type 110(3)	CICXQ1	Applicable with CICS/TS
Type 110(3)	CICXQ2	Applicable with CICS/TS
Type 110(3)	CICXQ3	Applicable with CICS/TS
Type 88	TYPE88	Applicable with CICS/TS

Chapter 1.5: Files used by the DASD Component

The following table identifies the files used by the DASD Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
Type 14/15	N/A	Optional: Required only if analyzing data set response performance. Generated by CPEXpert.
Type 30	TYPE30_4	Optional.
Type 30	TYPE30_V	Optional.
Type 30	DASD30DD	Optional: CPEXpert modification to MXG
Type 42	TYPE42DS	Optional: Required for VSAM and data set analysis
Type 64	TYPE64	Optional: Required for VSAM analysis
Type 64	TYPE64X	Optional: Required for VSAM analysis
Type 70	TYPE70	
Type 70	TYPE70PR	
Type 73	TYPE73	
Type 74	TYPE74	
Type 75	TYPE75	
Type 78	TYPE78CF	

Chapter 1.3: Files used by the MVS Component (Compatibility Mode)

The following table identifies the files used by the MVS Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
Type 70	TYPE70	
Type 70	TYPE70PR	
Type 71	TYPE71	
Type 72	TYPE72	
Type 74	TYPE74	
Type 74	TYPE74CF	Optional: Required for coupling facility analysis.
Type 74	TYPE74ME	Optional: Required for coupling facility analysis.
Type 74	TYPE74PA	Optional: Required for coupling facility analysis.
Type 74	TYPE74ST	Optional: Required for coupling facility analysis.
Type 74	TYPE74SY	Optional: Required for coupling facility analysis.
Type 75	TYPE75	
Type 88	TYPE88	Optional: Required for system logger analysis

Chapter 1.4: Files used by the TSO Component (Compatibility Mode)

The following table identifies the files used by the TSO Component of CPEXpert when processing data in a MXG PDB:

SMF RECORD	MXG FILE	NOTES
Type 30	TYPE30_1	
Type 30	TYPE30_4	Optional.
Type 30	TYPE30_V	Optional.
Type 30	DASD30DD	Optional: CPEXpert modification to MXG.
Type 70	TYPE70	
Type 70	TYPE70PR	
Type 71	TYPE71	
Type 72	TYPE72	
Type 74	TYPE74	
Type 75	TYPE75	

Chapter 1.2: Files used by the SRM Component (Compatibility Mode)

No SMF or MXG files are used by the SRM Component. The SRM Component of CPEXpert processes SYS1.PARMLIB members.

Chapter 2: Files required when processing a NeuMICS PDB

This chapter identifies the files used when processing a NeuMICS performance data base

Chapter 2.1: Files used by the WLM Component

The following table identifies the files used by the WLM Component of CPEXpert when processing data in a NeuMICS PDB:

SMF RECORD	MICS FILE	NOTES
Type 30	BATJOB.cycle	Optional (but highly recommended).
Type 30	BAT_TS.cycle	Optional (but highly recommended).
Type 30	BAT_ST.cycle	Optional (but highly recommended).
Type 30	DASD30DD	Optional: CPEXpert modification to MXG.
Type 70	HARCPU.cycle	
Type 70	HARLPC.cycle	
Type 71	SCPPAG.cycle	
Type 71	SCPSWP.cycle	
Type 72	WLMRGP.cycle	
Type 72	WLMSEA.cycle	
Type 72	WLM_EA.cycle	
Type 72	WLMSEC.cycle	
Type 72	WLMSED.cycle	
Type 72	WLMSEDE.cycle	
Type 72	WLMSDS.cycle	
Type 72	WLMSEM.cycle	
Type 72	WLM SVC.cycle	
Type 74	HARDVA.cycle	
Type 74	SCPXCA.cycle	Optional: Required for coupling facility analysis.
Type 74	SCPXCY.cycle	Optional: Required for coupling facility analysis.
Type 74	HARCFR.cycle	Optional: Required for coupling facility analysis.
Type 75	SCPPSD.cycle	

Chapter 2.2: Files used by the DB2 Component

The following table identifies the files used by the DB2 Component of CPEXpert when processing data in a NeuMICS PDB:

SMF RECORD	MICS FILE	NOTES
Type 100	DB2DSD	Applies only for DDF analysis
Type 100	DB2DDY	
Type 100	DB2DSY	
Type 100	DB2DSU	Applies only if DB2 accounting data is available
Type 100	DBPDSB	
Type 74	HARCFH	Optional, required for data sharing analysis
Type 74	HARCFR	Optional, required for data sharing analysis

Chapter 2.3: Files used by the DASD Component

The following table identifies the files used by the DASD Component of CPEXpert when processing data in a NeuMICS PDB:

SMF RECORD	MICS FILE	NOTES
Type 30		Optional.
Type 30		Optional.
Type 30	DASD30DD	Optional: CPEXpert modification to MICS
Type 70	HARCPU.cycle	
Type 70	HARLPC.cycle	
Type 73	HARPCA.cycle	
Type 74	HARDVA.cycle	
Type 75	SCPPSD.cycle	
Type 78	SCPIOC.cycle	

Chapter 2.4: Files used by the CICS Component

Beginning with CPEXpert Release 12.1, the CICS Component of CPEXpert no longer supports CICS performance analysis with NeuMICS.

MXG is required for CPEXpert to comprehensively process the CICS/ESA, CICS Transaction Server for OS/390, or CICS Transaction Server for z/OS data. This is because the CICS information contained in the standard MICS data bases is insufficiently detailed for CPEXpert to perform the detailed analysis of CICS performance problems. CPEXpert previously attempted to perform **some** analysis of CICS data in a NeuNeuMICS data base, but most important areas could not be covered because the data is not normally retained in the NeuNeuMICS data sets. Consequently, CPEXpert abandoned support of CICS performance analysis with a NeuNeuMICS performance data base.

Chapter 2.5: Files used by the MVS Component (Compatibility Mode)

The following table identifies the files used by the MVS Component of CPEXpert when processing data in a NeuMICS PDB:

SMF RECORD	MICS FILE	NOTES
Type 70	HARCPU.cycle	
Type 70	HARLPC.cycle	
Type 71	SCPPAG.cycle	
Type 71	SCPSWP.cycle	
Type 72	SPCPPA.cycle	
Type 74	HARDVA.cycle	
Type 74	SCPXCA.cycle	Optional: Required for coupling facility analysis.
Type 74	SCPXCY.cycle	Optional: Required for coupling facility analysis.
Type 74	HARCFR.cycle	Optional: Required for coupling facility analysis.
Type 74	SCPPSD.cycle	Optional: Required for coupling facility analysis.
Type 74	HARCFR.cycle	Optional: Required for coupling facility analysis.
Type 75	SCPPSD.cycle	

Chapter 2.6: Files used by the TSO Component (Compatibility Mode)

The following table identifies the files used by the TSO Component of CPEXpert when processing data in a NeuMICS PDB:

SMF RECORD	MICS FILE	NOTES
Type 70	HARCPU.cycle	
Type 70	HARLPC.cycle	
Type 71	SCPPAG.cycle	
Type 71	SCPSWP.cycle	
Type 72	SCPPPA.cycle	
Type 74	HARDVA.cycle	
Type 75	SCPPSD.cycle	

Chapter 2.7: Files used by the SRM Component (Compatibility Mode)

No SMF or NeuMICS files are used by the SRM Component. The SRM Component of CPEXpert processes SYS1.PARMLIB members.

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