



Program Directory for VSE/ESA Version 2

Version 2 Release 6.2

Program Number 5690-VSE

Document Date: December 2002

GI10-9765-02

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

This program directory, dated December 2002, applies to VSE/Enterprise Systems Architecture Version 2 (VSE/ESA 2.6.2) Release 6.2 , Program Number 5690-VSE for the following:

Feature Numbers	Content	System Name
2201	VSE/ESA V2 English Base on 3480 Cartridge	VSE/ESA V2
2202	VSE/ESA V2 English Base on 4MM DAT (2GB uncompressed)	VSE/ESA V2
2199	VSE/ESA V2 English Base on 3590 Cartridge	VSE/ESA V2
2402,2601	VSE/ESA V2 German/Spanish Base on 3480 Cartridge	VSE/ESA V2
2403,2602	VSE/ESA V2 German/Spanish Base on 4MM DAT (2GB uncompressed)	VSE/ESA V2
2404,2599	VSE/ESA V2 German/Spanish Base on 3590 Cartridge	VSE/ESA V2
2087	VSE/ESA V2 Japanese Base on 3480 Cartridge	VSE/ESA V2
2088	VSE/ESA V2 Japanese Base on 4MM DAT (2GB uncompressed)	VSE/ESA V2
2089	VSE/ESA V2 Japanese Base on 3590 Cartridge	VSE/ESA V2

A form for reader's comments appears at the back of this publication. When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 1990, 2002. All rights reserved.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Notices	v
Trademarks and Service Marks	vi
Summary of Changes	vii
1.0 Introduction	1
2.0 Program Materials	3
2.1 For Users who have NOT ordered a II VSE/ESA Base Products	4
2.1.1 General Description	4
2.1.2 Jobstreams included for deleting VSE/ESA Base components	4
2.1.3 Special considerations when deleting CICS Transaction Server	5
2.2 VSE/ESA BASE - BASIC Machine Readable Material (MRM)	6
2.2.1 VSE/ESA BASE - MEDIA and VOLUMES	6
2.2.2 VSE/ESA BASE - PRODUCTS / COMPONENTS	7
2.2.3 VSE/ESA BASE - MRM FILE Contents	9
2.2.4 VSE/ESA Extended BASE - PRODUCTS / COMPONENTS	11
2.3 VSE/ESA BASE - OPTIONAL Machine-Readable Material	12
2.4 VSE/ESA BASE - Program Publications	13
2.4.1 VSE/ESA Base - Basic Publications	13
2.5 VSE/ESA OPTIONAL PROGRAMS	15
2.5.1 Optional Programs - Available with VSE/ESA V2	15
2.5.2 Optional Programs - List of Product Identifiers	17
2.5.3 Optional Programs - Program Tapes/Program Cartridges	20
2.5.4 Optional Programs - File Content	20
2.5.5 Optional Programs - Basic Publications	21
2.5.6 Optional Programs - Licensed Publications and Microfiche	30
3.0 Program Support	31
3.1 Preventive Service Planning	31
3.2 Statement of Support Procedures	31
4.0 Program and Service Level Information	33
4.1 Program Level Information	33
4.2 Service Level Information	36
4.3 Cumulative Service Tape	36

5.0 Installation Requirements and Considerations	37
5.1 System Requirements	37
5.1.1 Operating System Requirements	37
5.1.2 VSE/ESA Processor Support	37
5.1.3 Processor Details	38
5.1.4 Minimum System Configuration	38
5.1.5 DASD Storage Requirements	38
6.0 Special Considerations	39
6.1 Tips and Hints for VSE/ESA Base Programs	39
6.1.1 VSE/ESA Fast Service Upgrade (FSU)	39
6.1.2 SSL Client Authentication	39
6.1.3 Unattended Node Support - Environment C	40
6.1.4 OS/390 Library - API	40
6.1.5 Restriction of the MSHP TAILOR Function	40
6.1.6 Implementation of LCDD for the 3494 Tape Library Dataserver	40
6.1.7 Device Support Facilities, Release 17	40
6.1.8 HLASM Support with ACF/SSP Version 4, Release 7 and 8	41
6.1.9 CICS/TS	41
6.1.10 SVA Setup	41
6.1.11 Telnet Terminal Definition and Autoinstall	41
6.1.12 Language Environment for VSE/ESA (LE/VSE 1.4.2)	42
6.1.12.1 Overview	42
6.1.12.2 Modifying the Behavior of the COBOL Reusable Environment (optional)	43
6.1.12.3 Mixed Language Applications under LE/VSE (involving Assembler)	43
6.1.12.4 Summary of LE/VSE Customization and IVP-Jobs in IUI	43
6.1.12.5 Languages and CICS Transaction Server	46
6.1.12.6 Generating Applications Capable of Running Under LE/VSE	46
6.1.12.7 AMODE 24 Applications in a LE/VSE-initialized CICS Environment	46
6.1.12.8 Run-Time Options to Use with Caution	47
6.1.12.9 CICS/VSE Table Parameter Settings (optional environment)	47
6.1.12.10 CICS Translator Options Required for COBOL Applications	48
6.1.12.11 LE/VSE Related Service via Ordering PSP Bucket	48
6.1.12.12 LE/VSE Messages	49
6.1.12.13 LE/VSE Documentation Links	49
6.1.13 TCP/IP for VSE/ESA	50
6.1.14 Installation of VSE Connector Client	51
6.1.15 Installation of the Java-Based TCP/IP for VSE/ESA Configuration Dialog	51
6.1.16 CWS Client Authentication	52
6.1.17 Known Impact on Vendor Software	52
6.2 Publication Updates	53
6.2.1 Accessing VSE/ESA Performance Documentation	53
6.3 Tips and Hints for VSE/ESA Optional Programs	54
6.3.1 VisualAge Generator Server runtime	54

7.0 Installation Instructions	57
8.0 VSE/ESA 2.6.2 Install Logic	59
9.0 Reader's Comments	61

Notices

References in this document to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe on any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the

International Business Machines Corporation
IBM Director of Licensing
500 Columbus Avenue
Thornwood, New York 10594
USA

Trademarks and Service Marks

The following terms, denoted by an asterisk (*), used in this document, are trademarks or service marks of IBM Corporation in the United States or other countries:

ACF/VTAM	e(logo)business	Redbooks
AD/Cycle	ES/3090	RETAIN
Advanced Function Printing	ES/4381	RS/6000
AFP	ES/9000	S/390
BookManager	ES/9370	S/390 Parallel Enterprise Server
BookMaster	ESCON	SAA
C/370	GDDM	SQL/DS
CCCA	IBM	System/390
CICS	IBMLink	VisualAge
CICS/ESA	Language Environment	VisualGen
CICS/VSE	MQSeries	VM/ESA
COBOL/370	Multiprise	VSE/ESA
CUA	MVS	VTAM
DATABASE2	NetView	WebSphere
DataPropagator	OS/2	xSeries
DB2	OS/390	z/Architecture
DFSORT	Print Services Facility	z/OS
ECKD	QMF	z/VM
e(logo)Server	RAMAC	zSeries

The following terms, denoted by a double asterisk (**), used in this document, are trademarks of other companies as follows:

Microsoft, Windows, Windows NT and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Summary of Changes

The following list summarizes VSE/ESA 2.6.2 content changes compared to VSE/ESA 2.6.1

VSE/ESA BASE PROGRAMs

- 5747-DS2 Device Support Facilities (ICKDSF) 1.17 - new release

VSE/ESA OPTIONAL PROGRAMs

Removed Feature:

- 5686-A05 CA-Top Secret 1.3 (withdrawn from Marketing 9/04/2002, and announced to be withdrawn from Service effective 9/30/2003)

1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of VSE/ESA 2.6.2. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for VSE/ESA 2.6.2.
- 3.0, “Program Support” on page 31 describes the IBM support available for VSE/ESA 2.6.2.
- 4.0, “Program and Service Level Information” on page 33 lists the APARs (program level) and PTFs (service level) incorporated into VSE/ESA 2.6.0
- 5.0, “Installation Requirements and Considerations” on page 37 identifies the resources and considerations for installing and using VSE/ESA 2.6.2.
- 7.0, “Installation Instructions” on page 57 provides detailed installation instructions for VSE/ESA 2.6.2.
- 8.0, “VSE/ESA 2.6.2 Install Logic” on page 59 provides the install logic for VSE/ESA 2.6.2.

Before installing VSE/ESA 2.6.2, read 3.1, “Preventive Service Planning” on page 31. This section tells you how to find any updates to the information and procedures in this program directory.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for VSE/ESA 2.6.2 is 5690-VSE.

The program announcement material describes the features supported by VSE/ESA 2.6.2. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- The basic and optional program materials available with this program
- Program Source Materials

Microfiche program listings are not provided with VSE/ESA 2.6.2. Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings formerly provided through microfiche.

Those customers without access to VPL can contact their IBM representative.

The VPL facility provides online viewing of program listings that are available to customers.

2.1 For Users who have NOT ordered a I I VSE/ESA Base Products

Customers, who have not ordered ALL VSE/ESA Products are requested to delete those products, for which they are not licensed.

2.1.1 General Description

In order to ensure successful installation, all base products are delivered with the VSE/ESA Version 2 system, but if you have specified only some of them to use and to get licensed for, you are requested to delete the others from the system.

2.1.2 Jobstreams included for deleting VSE/ESA Base components

VSE/ESA 2.6.2 provides ready-to-run jobs to delete base products which were not intentionally ordered.

Following is a list of these jobs, stored in ICCF library 59:

- DELCICS to delete CICS TS 1.1.1
- DELDB2 to delete DB2 Server V7.1 and DB2 Data Propagator
- DELDB272 to delete DB2 Server V7.2
- DELDIT to delete DITTO/ESA
- DELLECOB to delete the LE/VSE COBOL parts *)
- DELLEPLI to delete the LE/VSE PL/I parts *)
- DELTCPIP to delete TCP/IP for VSE/ESA
- DELVTM to delete ACF/VTAM 4.2

Note: *)The VSE C Run-Time support will remain in the VSE/ESA BASE.

To delete one of these Base Products, access ICCF library 59 and submit the job named in above list.

Note: Since the VSE/ESA System Package is tested and delivered as a full-function, pre-packaged system, any modifications to the system become the user's responsibility. If you are deleting a base component, you should be aware of the consequences of the loss of product function.

1. Since the deletion of a component is treated as altered code, solving problems may cause additional billing, if the alteration is determined to be the cause of a problem.
2. You should be aware that maintenance procedures, including the application of PTFs, may be affected in the event one or more components are deleted.
3. Deleting parts of LE requires updates of the CICS CSD file. Please refer to skeleton SKLE370 in ICCF library 59 for more details.
4. Do not delete the VSE C Run-Time support - without which CICS TS will not come up.

2.1.3 Special considerations when deleting CICS Transaction Server

- ICCF cannot be used - also not with CICS/VSE
- The Interactive User Interface cannot be used - also not with CICS/VSE
- DL/I 1.10.0 does not run with the CICS Transaction Server, it requires CICS/VSE Version 2.3
- DL/I 1.11.0 requires CICS Transaction Server 1.1

2.2 VSE/ESA BASE - BASIC Machine Readable Material (MRM)

The **VSE/ESA BASE** is distributed on 3 volumes of either 3480 Cartridges, 3590 Cartridges or 4MM DAT. Additionally, the DB2 V7 Help Text is distributed on a separate volume.

Figure 1 describes the **MEDIA and VOLUMES** of the VSE/ESA BASE. These volumes contain all the programs and data needed for installation. VSE/ESA 2.6.2 is installed using the Maintain System History Program (MSHP).

Figure 2 on page 7 describes the **BASE PRODUCTS and COMPONENTS** of the VSE/ESA BASE.

Figure 3 on page 9 and Figure 4 on page 10 describe the **FILES** of the VSE/ESA BASE on cartridge.

See 7.0, "Installation Instructions" on page 57 for more information about how to install the program.

2.2.1 VSE/ESA BASE - MEDIA and VOLUMES

Figure 1. Basic Material - VSE/ESA - MEDIA and VOLUMES

Medium	Feature Numbers	Physical Volume	External Label Identification
3480 Cartridge	2201,2402,2601,2087	1	VSE/ESA2.6.2-xx
		2	VSE/ESA2.6.2-xx2
		3	VSE/ESA2.6.2XBASE
4MM DAT (2GB uncompressed)	2202,2403,2602,2088	1	VSE/ESA2.6.2-xx
		2	VSE/ESA2.6.2-xx2
		3	VSE/ESA2.6.2XBASE
3590 Cartridge	2199,2404,2599,2089	1	VSE/ESA2.6.2-xx
		2	VSE/ESA2.6.2-xx2
		3	VSE/ESA2.6.2XBASE

Notes:

1. **xx** defines the LANGUAGE of the VSE/ESA Base, in which the system was ordered:
 - xx = EN English
 - xx = GE German
 - xx = SP Spanish
 - xx = KA Kanji (Japanese)
2. The **XBASE** (Extended Base) contains further VSE/ESA Base Programs. **DO NOT IPL the Extended Base**
3. The 4MM DAT (2GB uncompressed) is delivered for a 3480 Cartridge device driver on a PC Server System /390 and or RS/6000 System/390 Server on Board.

2.2.2 VSE/ESA BASE - PRODUCTS / COMPONENTS

Figure 2 describes the contents of the VSE/ESA 2.6.2 Base.

Figure 2 (Page 1 of 2). VSE/ESA 2.6.2 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
VSE/ESA 2.6.2 (Package)	5690-VSE	n/a	n/a
VSE Central Functions 6.6.0	5686-066	n/a	n/a
VSE/SP UNIQUE CODE	5686-066	568606601	65C
VSE/UNIQUE CODE ENGLISH	5686-066	568606602	65D
KANJI	5686-066	568606602	65E
GERMAN	5686-066	568606602	65A
SPANISH	5686-066	568606602	65H
VSE/POWER	5686-066	568606603	65C
VSE/POWER Macros	5686-066	568606603	65G
VSE/VSAM	5686-066	568606605	65C
VSE/VSAM Macros	5686-066	568606605	65G
VSE/AF SVR & BAM & GDS	5686-066	568606606	65C
VSE/AF Macros	5686-066	568606606	65G
VSE/AF Generation Feature	5686-066	568606606	65J
VSE/AF MSHP	5686-066	568606607	65C
VSE/AF Info/Analysis	5686-066	568606608	65C
VSE/AF IOCP	5686-066	568606609	65C
VSE/ICCF	5686-066	568606610	65C
VSE/FastCopy	5686-066	568606611	65C
REXX/VSE Library	5686-066	568606612	65I
REXX/VSE Kernel & Interface	5686-066	568606616	65I
VSE/OLTEP	5686-066	568606613	65I
OSA SF	5686-066	568606630	6G7
VSE Connectors	5686-066	568606635	65N
LE Base ENU + JPN 1.4.2	5686-066	568606632	65K
LE C ENU + JPN 1.4.2	5686-066	568606633	65L
CICS Transaction Server 1.1.1	5648-054	564805400	B0P

Figure 2 (Page 2 of 2). VSE/ESA 2.6.2 - BASE Products

Product Description	Program Number	Component-Identifier	CLC
TCP/IP 1.4 for VSE/ESA 1) Application Pak NFS Feature GPS Feature	5686-A04	5686A0400	1OQ
ACF/VTAM 4.2.0 2) Client/Server MultiDomain InterEnterprise	5686-065	568606501	FE6
High Level Assembler 1.4.0	5696-234	569623400	489
EREP 3.5.0	5656-260	565626001	E00
ICKDSF 1.17.0	5747-DS2	565899201	1NM
DITTO/ESA for VSE	5648-099	564809901	36O
LE COBOL + JPN + CICS	5686-094	568609403	6EW
LE PL/I + JPN	5686-094	568609406	6EX

Notes:

1. TCP/IP for VSE/ESA consists of several functional features, which are pre installed with the base product. Each feature is key-protected. They have to be activated by entering an activation key together with the customer number, which is provided when TCP/IP for VSE/ESA was ordered.
2. ACF/VTAM V4R2 for VSE/ESA consists of three functional levels which are shipped in the base product. They are activated by entering your customer number and valid password, which is added to your order according to the ordered feature.

2.2.3 VSE/ESA BASE - MRM FILE Contents

The layout of the base tapes changed. Initial Installation will reflect the new layout. FSU will also handle the new layout, provided the prepare step is executed first. The downlevel check should not be done prior to the prepare step, but **after the prepare**.

Figure 3 describes the files of the **first volume** of the VSE/ESA Base (labelled: VSE/ESA2.6.2-xx)

Please note that the 4MM DAT must be defined as 3480 Cartridge in the Configuration (Device Map)

Figure 3 (Page 1 of 2). File Content: VSE/ESA 2.6 BASE - 1st volume

File	Name
1	Header and SA Supervisor
2	VSE Standalone Utilities
3	MSHP History File - SYSRES Products
4	SYSRES Library
5	Null File
6	End of Backup Record
7	DTSFILe Header
8	DTSFILe Non-NLS
9	EOF1 - DTSFILe Trailer
10	Header File
11	MSHP History File - PRD1.MACLIB Products
12	PRD1.MACLIB Sublibrary
13	Header File
14	MSHP History File - PRD2.SCEEBASe Products
15	PRD2.SCEEBASe Sublibrary
16	Header File
17	MSHP History File - NLS Products
18	NLS Library
19	Null File
20	End of Backup Record
21	DTSFILe Header
22	DTSFILe NLS
23	EOF1 - DTSFILe Trailer
24	Header File
25	MSHP History File - Generation Features

Figure 3 (Page 2 of 2). File Content: VSE/ESA 2.6 BASE - 1st volume

File	Name
26	Generation Feature
27	Null File
28	End of Tape Record

Figure 4 describes the files of the **second volume** of the VSE/ESA Base (labelled: VSE/ESA2.6.2-xx2)

Figure 4. File Content: VSE/ESA 2.6 BASE - 2nd volume

File	Name
1	Header File
2	MSHP History File - PRD1.BASE Products
3	PRD1.BASE Sublibrary
4	Null File
5	End of Backup Record
6	Online-Message-File
7	Null File
8	End of Tape Record

2.2.4 VSE/ESA Extended BASE - PRODUCTS / COMPONENTS

Figure 5 describes the VSE/ESA 2.6.2 EXTENDED BASE Products / Components.

Figure 5. VSE/ESA 2.6.2 - EXTENDED BASE Products

Product Description	Program Number	ComponentID	CLC
CICS/VSE 2.3 Production	5686-026	568602601	14X
CICS/VSE 2.3 Generation 1)	5686-026	568602601	14V
CICS/VSE 2.3 RCF	5686-026	568602601	14W
OS/390 APIs	5686-066	568606614	65V
LE DBCS Locales	5686-066	568606634	65M
DB2 V7.2 Server f.VSE/ESA 3)	5697-F42	5697F4201	2NN
DB2 V7.1 DPROPR	5697-F42	5697F4201	1NO

Notes:

1. This feature is only needed if CICS/VSE 2.3 is to be re-generated
2. For an improved installability of DB2 Server for VSE Version 7.2 (5697-F42), this product is partially packaged and delivered as a key-enabled component of the VSE/ESA 2.6.2 Base. First time DB2 users can take advantage of a free-of-charge 90-day trial period to evaluate the product. An activation key, provided with the DB2 Server for VSE V7 license, is required to use the product beyond the 90-day trial period. Packaging info: The DB2 V7 components packaged onto and always distributed with the VSE/ESA Extended Base Tape are DB2 Server for VSE and Data Propagator Capture for VSE. The DB2 Server for VSE Help Tape is always distributed on a separate tape. The DB2 optional features are packaged as optional products and distributed on the VSE/ESA optional product 'stacked tape' if they were ordered. Please note, that the DB2 Optional features will remain on release 1.

2.3 VSE/ESA BASE - OPTIONAL Machine-Readable Material

There is Optional Source available for VSE Central Functions 6.6.0.

The distribution media for optional machine-readable material are 3480 cartridge, 3590 cartridge or 4MM DAT.

A separate memorandum is distributed with the Optional Material. It contains a description on how to install the Optional Source Code of VSE Central Functions.

Figure 6 describes the media.

Figure 6. Optional Material: 5686-066 VSE Central Functions 6.6

Feature Number	Medium	Product Name	Product No.	External Tape Label
5237	3480 Cartridge	VSE Central Functions	5686-066	VSE CF 6.6.0 SOURCE
5238	4MM DAT	VSE Central Functions	5686-066	VSE CF 6.6.0 SOURCE
6099	3590 Cartridge	VSE Central Functions	5686-066	VSE CF 6.6.0 SOURCE

2.4 VSE/ESA BASE - Program Publications

The following sections identify the basic and optional publications for VSE/ESA 2.6.2, that are available as hardcopy publications. The VSE Softcopy Collection Kit SK2T-0060, which is distributed with every VSE/ESA order, provides further documentation to all available VSE/ESA base and optional programs. Those publications, which have been added or updated with VSE/ESA 2.6.2 are either marked with **(N)** for NEW publications, or **(U)** for updated documentation. Your shipment contains ONE copy of all those publications, which were updated since your last shipment. Therefore, your shipment may NOT CONTAIN ALL publications shown in the the following lists. For additional copies, contact your IBM representative.

2.4.1 VSE/ESA Base - Basic Publications

Figure 7. VSE/ESA Basic Publications

Publication Title	Form Number
VSE/ESA Licensed Progr. Specifications	GC33-6700
VSE/ESA System Upgrade & Service	SC33-6702
VSE/ESA Planning	SC33-6703
VSE/ESA Installation	SC33-6704
VSE/ESA Administration	SC33-6705
VSE/ESA Release Guide	SC33-6718
VSE/ESA Softcopy Collection Kit	SK2T-0060 U
VSE/ESA e-business Connectors User's Guide	SC33-6719
DB2 Server CD Doc Kit	SK3T-5257
DB2 Server Overview	GC09-2995
QMF Window Try/Buy Kit	LCD4-3781
Program Directory VSE/VSAM for VM	n/a
DB2 Program Directory	GI10-4999
DB2 Memo to Users DB2 Server	GI10-5008

Figure 8 identifies the basic program publications for CICS Transaction Server

Figure 8 (Page 1 of 2). Basic Publications of CICS Transaction Server 5648-054

Publication Title	Form Number
CICS-supplied Transactions	SC33-1655
Customization Guide	SC33-1652
Migration Guide	GC33-1646
System Definition Guide	SC33-1651
Operations and Utilities GD	SC33-1654
Release Guide	SC33-1645
Program Directory	GI10-2508

Figure 8 (Page 2 of 2). Basic Publications of CICS Transaction Server 5648-054

Publication Title	Form Number
Licensed Programming Specs	GC34-5464
Enhancements Guide	GC34-5763 U

Note: CICS/VSE 2.3 publications are provided as softcopy only on the VSE/ESA Softcopy Collection Kit SK2T-0060.

Figure 9. Basic Publications of LE/VSE

Publication Title	Form Number
LE Licensed Programming Specs	GC33-6683

Figure 10. Basic Publications of TCP/IP for VSE/ESA

Publication Title	Form Number
TCP/IP Licensed Programming Specs	GC33-6594

Figure 11. Basic Publications of DITTO/ESA

Publication Title	Form Number
DITTO/ESA Install and Customization Guide	GC26-9598
DITTO/ESA Licensed Programming Specs	GH19-8223
DITTO/ESA Program Directory	GI10-0426

Figure 12. Basic Publications of ACF/VTAM 4.2.0

Publication Title	Form Number
Network Implementation Guide	SC31-6494
VTAM Operation	SC31-6495
VTAM Resource Definition Reference	SC31-6498
Program Directory	GI10-8112
VTAM Licensed Programming Specs	GC31-6490

2.5 VSE/ESA OPTIONAL PROGRAMS

Optional Programs are independent products, that can be ordered additionally and together with VSE/ESA and which run under the operating system VSE/ESA. They should not be mixed up with the optional material (source code), which is available for both the VSE/ESA BASE and some Optional Programs.

The distribution medium for these Optional Programs are the same as for the VSE/ESA Base. The tapes or cartridges contain all of the programs and data needed for installation using the Maintain System History Program (MSHP). They are on the media in stacked format and can be installed by using the VSE/ESA dialogs.

2.5.1 Optional Programs - Available with VSE/ESA V2

(sorted by Product Number)

Prod.No.	Product Name	V.R.M	remarks
-----	-----	-----	-----
5648-063	ACF/NCP 3745	7.8.1	3746-900 incl. NCP
5648-099	DITTO/ESA for VM feature	1.3.0	VM format
5648-B02	VA Generator Server	1.2.0	NLS available
5648-B33	AFP Font Collection	2.1.1	VSE fonts / NLS
5668-719	X.25 NPSI	2.1.0	
5668-723	GDDM-IVU	1.1.3	
5668-738	ACF/NCP 3745/3720	5.4.0	
5668-801	GDDM-IMD	2.1.3	
5668-812	GDDM-PGF	2.1.3	
5668-854	ACF/NCP 3725	4.3.1	
5686-011	CICSVR/VSE	1.2.0	
5686-040	PSF/VSE	2.2.1	with Base fonts
5686-055	NetView for VSE	2.3.0	CSF, DSF, NLV Jap.
5686-057	GDDM/VSE	3.2.0	NLS available
5686-064	ACF/SSP for VSE	4.8.1	
5686-065	ACF/VTAM for VM feature ACF/VTAM APPC Feature	4.2.0	VM format
5686-066	IXFP/Snapshot	6.6.0	Opt.Feat.of VSE CF
5686-068	COBOL for VSE/ESA	1.1.0	Full/Altern.Function
5686-069	PL/I for VSE/ESA	1.1.0	Full/Altern.Function
5686-081	VSE/VSAM for VM	6.1.0	VM format
5686-A01	C for VSE/ESA	1.1.0	Full/Altern.Function
5686-A06	MQSeries for VSE/ESA	2.1.1	
5686-A07	CCCA for VSE/ESA	2.1.0	
5688-035	X.25 NPSI 3720/3745	3.4.0	
5688-035	X.25 NPSI 3745	3.9.0	
5688-190	PPFA/370	1.1.0	
5688-191	OGL/370	1.1.0	incl. NLS
5696-234	HLASM Toolkit	1.4.0	WS feature
5697-B88	DB2 VSAM Transparency	5.1.0	
5697-F42	DB2 V7 Server for VSE	7.2.0	NLV JPN, DEU, FRA
5697-F42	QMF for VSE/ESA	7.2.0	Base and NLV
5697-F42	QMF for Windows	7.2.0	Base and NLV
5735-XXB	EP 3720/3745	1.9.0	
5735-XXB	EP 3745	1.14.0	

5746-RG1	DOS/VS RPG II	1.3.0	
5746-SM3	DFSORT/VSE	3.4.0	
5746-XE7	VSE/ACLR	1.2.1	
5746-XXT	SDF/CICS	1.5.0	*)
5746-XXT	SDF II VSE	1.6.0	
5746-XX1	DL/I DOS/VS	1.10.0	
5746-XX1	DL/I VSE	1.11.0	

Note: SDF/CICS (1.5.0) will only work with the old CICS macro commands of CICS/VSE V2 (5686-026).

2.5.2 Optional Programs - List of Product Identifiers

The following Optional Programs are available with VSE/ESA 2.6.2. They show the product identifiers as you will find them on the Optional Program tape itself.

BACKUPID	COMPID	CLC	PRODID	
-----	-----	---	-----	
PSF/ACIF...2.2.1	564806201	FW0	062FW0	
PSF/API....2.2.1	564806202	FW1	062FW1	
NCP/V7....7.8.1	564806300	78G	06378G	
DITTO.JPN..1.3.0	564809902	370	099370	
QMF/VSE...7.2.0	566872101	2NR	F422NR	Base / US English
QMF/VSE.U..7.2.0	564806102	2NS	F422NS	Upper Case English
QMF/VSE.C..7.2.0	564806103	20L	F4220L	Canadian French
QMF/VSE.R..7.2.0	564806104	2NT	F422NT	Simpl.Chinese
QMF/VSE.F..7.2.0	564806107	2NU	F422NU	French
QMF/VSE.D..7.2.0	564806108	2NV	F422NV	German
QMF/VSE.I..7.2.0	564806109	2NW	F422NW	Italian
QMF/VSE.K..7.2.0	564806110	2NX	F422NX	Japanese
QMF/VSE.H..7.2.0	564806111	2NY	F422NY	Korean
QMF/VSE.P..7.2.0	564806112	2NZ	F422NZ	Brazil.Port
QMF/VSE.S..7.2.0	564806113	200	F42200	Spanish
QMF/VSE.Y..7.2.0	564806115	201	F42201	Swiss French
QMF/VSE.Z..7.2.0	564806116	202	F42202	Swiss German
VGEN.BASE..1.2.0	5648B020A	1JI	B021JI	Base
VGEN.ENU...1.2.0	5648B0207	1JF	B021JF	US English
VGEN.ENP...1.2.0	5648B020B	1JJ	B021JJ	UC English
VGEN.DES...1.2.0	5648B0202	1JA	B021JA	Swiss German
VGEN.ESP...1.2.0	5648B0203	1JB	B021JB	Spanish
VGEN.DEU...1.2.0	5648B0204	1JC	B021JC	German
VGEN.CHS...1.2.0	5648B0205	1JD	B021JD	Simpl.Chinese
VGEN.KOR...1.2.0	5648B0206	1JE	B021JE	Korean
VGEN.PTB...1.2.0	5648B0208	1JG	B021JG	Brazil.Portugese
VGEN.JPN...1.2.0	5648B0209	1JH	B021JH	Japanese
AFP_FONT...2.1.1	5648B3300	n/a	n/a	4)
NPSI/3725..2.1.0	566871901	B60	719B60	
GDDM-IVU...1.1.3	566872301	1FF	7231FF	
NCP/3745...5.4.0	566873801	CH0	738CH0	
NCP/UT-2...5.4.0	566873801	CH1	738CH1	
NCP/UT-2.5.5.4.0	566873801	CH2	738CH2	
NCP/UT-3...5.4.0	566873801	CH3	738CH3	
NCP/UT-4...5.4.0	566873801	CH4	738CH4	
NCP/UT-5...5.4.0	566873801	CH5	738CH5	
GDDM-IMD...2.1.3	566880101	1FG	8011FG	
GDDM-PGF...2.1.3	566881201	1F5	8121F5	
NCP/3725...4.3.1	566885401	D34	854D34	
CICSVR/VSE.1.2.0	568601101	1NL	0111NL	
PSF/VSE...2.2.1	568604001	DC0	040DC0	
PSF/CODEPG.B240	568604015	FR9	040FR9	
AFP/CODEPG.B300	568604021	FS0	040FS0	
PSF/COMPAT.B240	568604055	DH1	040DH1	
PSF/COMPAT.U240	568604054	DH0	040DH0	
NETVIEW.B..2.3.0	568605501	3II	0553II	1)
NETVIEW.BE.2.3.0	568605502	3AA	0553AA	1)

NETVIEW.BJ.2.3.0	568605502	3BA	0553BA	1)
NETVIEW.XE.2.3.0	568605503	3AB	0553AB	1)
NETVIEW.XJ.2.3.0	568605503	3BB	0553BB	1)
GDDM/VSE...3.2.0	568605701	1EA	0571EA	
GDDM/VSE.A.3.2.0	568605702	1EP	0571EP	
GDDM/VSE.B.3.2.0	568605702	1EO	0571EO	Brazilian
GDDM/VSE.C.3.2.0	568605702	1EN	0571EN	Simp.Chin.
GDDM/VSE.D.3.2.0	568605702	1EM	0571EM	Danish
GDDM/VSE.S.3.2.0	568605702	1EL	0571EL	Spanish
GDDM/VSE.T.3.2.0	568605702	1EK	0571EK	Trad.Chin
GDDM/VSE.V.3.2.0	568605702	1EJ	0571EJ	Swedish
GDDM/VSE.F.3.2.0	568605702	1EI	0571EI	French
GDDM/VSE.G.3.2.0	568605702	1EH	0571EH	German
GDDM/VSE.I.3.2.0	568605702	1EE	0571EE	Italian
GDDM/VSE.K.3.2.0	568605702	1ED	0571ED	Kanji
GDDM/VSE.N.3.2.0	568605702	1EC	0571EC	Norwegian
GDDM/VSE.Q.3.2.0	568605702	1EQ	0571EQ	Can.French
ACF/SSP...4.8.1	568606400	48G	06448G	
IXFP/SNAP..6.6.0	568606631	65P	06665P	
COB.BASE...1.1.0	568606800	18M	06818M	
COB.ENU...1.1.0	568606801	18N	06818N	
COB.JPN...1.1.0	568606802	18O	06818O	
DTVSE.BASE.1.1.1	5686A0200	6G8	A026G8	3)
DTVSE.JPN..1.1.1	5686A0201	6G9	A026G9	3)
PLI.VSE...1.1.0	568606900	18P	06918P	
DTVSE.BASE.1.1.1	5686A0200	6G8	A026G8	3)
DTVSE.JPN..1.1.1	5686A0201	6G9	A026G9	3)
C/VSE.BASE.1.1.0	5686A0100	1FY	A011FY	
C/VSE.JPN..1.1.0	5686A0101	1G4	A011G4	
DTVSE.BASE.1.1.1	5686A0200	6G8	A026G8	3)
DTVSE.JPN..1.1.1	5686A0201	6G9	A026G9	3)
MQSERIES...2.1.1	5686A0600	1ZZ	A061ZZ	
CCCA.VSE...2.1.0	5686A0700	1JS	A071JS	
NPSI/3745..3.4.0	568803501	CJ0	035CJ0	
NPSI/UT-2..3.4.0	568803501	CJ1	035CJ1	
NPSI/UT-2.53.4.0	568803501	CJ2	035CJ2	
NPSI/UT-3..3.4.0	568803501	CJ3	035CJ3	
NPSI/UT-4..3.4.0	568803501	CJ4	035CJ4	
NPSI/UT-5..3.4.0	568803501	CJ5	035CJ5	
X_25/NPSI..3.9.0	568803501	9E0	0359E0	
PPFA/370...1.1.0	568819001	A03	190A03	
OGL/370...1.1.0	568819101	A05	191A05	
OGL/370....1.1.0	568819102	AA0	191AA0	
OGL/370....1.1.0	568819103	AA1	191AA1	
OGL/370....1.1.0	568819104	AA2	191AA2	
HLASM.TLKT.1.4.0	569623401	4IM	2344IM	
DB2VSE.XTV.5.1.0	5697B8800	514	B88514	
DB2/NLV...7.2.0	5697F4201	2NN	F422NN	
ASN/VSE....7.1.0	5697F4201	1NO	F421NO	
DB2CC.....7.1.0	5697F4206	1NQ	F421NQ	
DB2VSE.RCV.7.1.0	5697F4205	1NP	F421NP	
RPGII.....1.3.0	5746RG100	042	RG1042	
DFSORT/VSE.3.4.0	5746SM310	34A	SM334A	
VSE/ACLR...1.2.1	5746XE700	H06	XE7H06	

SDF/CICS...1.5.0	5746XXT00	B27	XXTB27	
SDF/JAPAN..1.5.0	5746XXT10	B28	XXTB28	
SDF.II.VSE.1.6.0	5746XXT01	228	XXT228	
SDF.II.GER.1.6.0	5746XXT03	1J7	XXT1J7	
SDF.II.DES.1.6.0	5746XXT04	1J8	XXT1J8	
SDF.II.ESP.1.6.0	5746XXT05	1J9	XXT1J9	
SDF.II.JPN.1.6.0	5746XXT02	229	XXT229	
DL/I-BASE..1.A.0	5746XX100	DB5	XX1DB5	
DL/I-BASE..1.B.0	5746XX100	1I0	XX11I0	
EP/3745....1.9.0	5748EP115	CH6	EP1CH6	2)
EP_R14....1.14.0	5748EP115	4E1	EP14E1	2)

Notes:

1. 5686-057 Netview 2.3 consists of
NetView Central System Feature
NetView Distributed System Feature,
and is delivered on 2 tapes: either in English or Japanese.
2. The program number of EP/3725 (5735-XXB) differs from the COMPONENT-ID.
3. These components define the debugging functions (DEBUG Tool), which are part of the Full Function orders of C for VSE, PL/I for VSE and COBOL for VSE. Please also refer to Info APAR II10023 which has changes to the *Debug Tool Installation and Customization Guide* documented.
4. The AFP Fonts will NOT be stacked. You will get them on separate volumes.

2.5.3 Optional Programs - Program Tapes/Program Cartridges

All ordered Optional Programs will be delivered on stacked tape or cartridge. There will be multiple volumes, if the ordered products will physically not fit onto one volume.

You will get Program Directories of the individual Optional programs ordered with VSE/ESA 2.6.2 for additional information on the particular programs. Please ignore the **ordering information** in these directories, as this part does not apply to these products when ordered within the VSE/ESA package.

The external tape label of the stacked tape/cartridge is:

VSE/ESA 2.6.2 OPT x OF y

2.5.4 Optional Programs - File Content

Figure 13 describes the file content of the Optional Program Tape

Figure 13. Program Tape - 'VSE/ESA 2.6.2 OPT x OF y' File Content

File	Name
1	Null File
2	Start of Stacked Tape Indicator
3	Null File
4	1st Optional Program ordered
5	2nd Optional Program ordered
6	3rd Optional Program ordered
7	nth Optional Program ordered
8	Null File
9	End of Stacked Tape Indicator
10	Null File
11	Null File

Refer to the individual program directories on specific information to the ordered product.

2.5.5 Optional Programs - Basic Publications

The following tables identify the basic publications of the VSE/ESA 2.6.2 Optional Programs, sorted by program number.

Figure 14. BASIC Documentation of ACF/NCP 3745 5648-063 7.8.1

Publication Title	Order/Form Number
NCP Licensed Programming Specs	GC31-6226
NCP, SSP & EP Resource Def. Guide	SC31-6223
NCP, SSP & EP Resource Def. Refer.	SC31-6224
NCP V7R8 Migration Guide	SC30-4024
Planning for NetView, NCP & VTAM	SC31-8063
NCP...Today, Magazine	G325-3426
Program Directory	GI10-6623
Memo to Licensees	GI10-6628

Figure 15. BASIC Documentation of DITTO/ESA f.VM 5648-099 1.3.0

Publication Title	Order/Form Number
Program Directory	GI10-0438

Figure 16. BASIC Documentation of VisualAge Generator Server 5648-B02 1.2.0

Publication Title	Order/Form Number
VA Generator Server LPS	GH23-0255
VA Generator Server Guide	SH23-0256
Program Directory	GI10-0813
Memo to Current Licensees	GI10-6776

Figure 17. BASIC Documentation of AFP Font Collection 5648-B33 2.1.1

Publication Title	Order/Form Number
AFP Font Collection LPS	G544-5634
AFP Font Summary	S544-5633
Program Directory VSE Fonts	GI10-0223
PGDIR Japanese Fonts VSE	GI10-0241
PGDIR Korean Fonts VSE	GI10-0242
PGDIR S-Chinese Fonts VSE	GI10-0243
PGDIR T-Chinese Fonts VSE	GI10-0244

Figure 18. BASIC Documentation of X.25 NPSI 5668-719 2.1.0

Publication Title	Order/Form Number
X.25 NCP PSI V2 General Information	GC30-3500
X.25 NCP PSI V2 Planning & Installation	SC30-3501
X.25 NCP PSI V2 Host Programming	SC30-3503
X.25 NCP PSI V2 Licensed Programming Specs	GC30-9616
NCP and Related Products: Directory of Progr.Interfaces for Customers	GC31-6202
Program Directory	n/a

Figure 19. BASIC Documentation of GDDM-IVU 5668-723 1.1.3

Publication Title	Order/Form Number
Image View Utility	SC33-0479
Program Directory	GI11-1586

Figure 20. BASIC Documentation of ACF/NCP for 3745 5668-738 5.4.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC30-9607
NCP Migration Guide	SC31-6204
NCP, SSP & EP Resource Definition Guide	SC30-3447
NCP, SSP & EP Resource Definition Reference	SC30-3448
Planning and Reference for NetView, NCP, and VTAM	SC31-6102
Program Directory	GI11-2027

Figure 21. BASIC Documentation of GDDM-IMD 5668-801 2.1.3

Publication Title	Order/Form Number
Interactive Map Definition	SC33-0338
Program Directory	n/a

Figure 22. BASIC Documentation of GDDM-PGF 5668-812 2.1.3

Publication Title	Order/Form Number
Interactive Chart Utility	SC33-0328
Vector Symbol Editor	SC33-0330
Application Program Guide	SC33-0913
Programming Reference	SC33-0333
TNL: Programming Reference	SN33-6436
OPS Users Guide	SC33-1776
Program Directory	GI10-9657

Figure 23. BASIC Documentation of ACF/NCP for 3725 5668-854 4.3.1.

Publication Title	Order/Form Number
Licensed Program Specifications	GC30-9583
NCP, SSP & EP Resource Definition Guide	SC30-3349
NCP, SSP & EP Resource Definition Reference	SC30-3254
NCP Migration Guide	SC30-3252
Network PPs: Planning	SC30-3351
Network PPs: General Information	GC30-3350
NCP and Related Products: Directory of Progr.	GC31-6202
Interfaces for Customers	
Generation & Loading Guide	SC30-3348
Messages and Codes	SC30-3169
Network PPs: Storage Estimates	SC30-3403
Program Directory	GI10-9624

Figure 24. BASIC Documentation of CICSVR/VSE 5686-011 1.2.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC26-7323
User's Guide and Reference	SC26-7321
Messages & Problem Determination	SC26-7322
Program Directory	GI10-4528
Memo to Licensees	GI10-4534

Figure 25. BASIC Documentation of PSF/VSE 5686-040 2.2.1

Publication Title	Order/Form Number
AFP: Printer Summary	G544-3135
MODCA Reference	SC31-6802
Printer Information	G544-3290
Application Programmer's GD	S544-3666
Licensed Programming Specifications	G544-3667
System Programmer's Guide	S544-3665
Messages & Codes	S544-3664
AFP Font Summary	G544-3810
API Progr. Guide and Reference	S544-3872
API COBOL Language	S544-3873
Program Directory for 2.2.1	GI10-0203

Figure 26. BASIC Documentation of NETVIEW 5686-055 2.3.0

Publication Title	Order/Form Number
Licensed Program Specs	GC31-6107
NetView Operation	SC31-6127
Administration Reference	SC31-6128
Application Programming Guide	SC31-6129
NetView Bridge Implementation	SC31-6131
NetView Customization Guide	SC31-6132
Customization: Using PL/I and C	SC31-6134
Customization: Writing Command Lists	SC31-6135
Resource Alerts Reference	SC31-6136
NetView Tuning Guide	SC31-6137
NetView Messages	SC31-6138
NetView Automation Planning	SC31-6141
Installation & Administration Guide	SC31-6182
NetView Samples (VSE)	SC31-6184
Planning and Ref.for NetView,NCP,VTAM	SC31-6191
NetView at a Glance	GC31-7016
Thanks for your Suggestions	GC31-7064
NetView Storage Estimates	SK2T-6002
Learning about NetView Operation	SK2T-1995
NetView Command Summary	SX75-0071
Program Directory	GI11-1485

Figure 27. BASIC Documentation of GDDM/VSE 5686-057 3.2.0

Publication Title	Order/Form Number
General Information	GC33-0866
Base Application Programming Guide	SC33-0867
Base Application Programming Reference	SC33-0868
Messages	SC33-0869
Diagnosis	SC33-0870
System Customization & Administration	SC33-0871
Users Guide	SC33-0875
Series Licensed Progr Specifications	GC33-0876
Using Image Symbol Editor	SC33-0920
Program Directory	GI11-1528

Figure 28. BASIC Documentation of ACF/SSP f. VSE 5686-064 4.8.1

Publication Title	Order/Form Number
NCP, SSP & EP Gen and Load Guide	SC31-6221
NCP, SSP & EP Messages & Codes	SC31-6222
Licensed Program Specs SSP	GC31-6230
NCP V7R8, SSP V4R8 & EP R14 Library Dir.	SC30-4025
NCP Today	G325-3426
Program Directory	GI10-6620
Memo to Licensees	GI10-6627

Figure 29. BASIC Documentation of ACF/VTAM for VM Feature 5686-065 4.2.0

Publication Title	Order/Form Number
VTAM Migration Guide VM/ESA	GC31-8071
VTAM Release Guide VM/ESA	GC31-8089
APPC Application Suite Users Guide	SC31-6532
APPC Application Suite Administrat.	SC31-6533
VTAM Application Suite Programming	SC31-6534

Figure 30. BASIC Documentation of IBM COBOL for VSE/ESA 5686-068 1.1.0

Publication Title	Order/Form Number
COBOL/VSE Licensed Programming Specs	GC26-8069
COBOL/VSE Installation & Custom.Guide	SC26-8071
COBOL/VSE Programming Guide	SC26-8072
Debug Tool Users Guide & Reference	SC26-8797
Debug Tool Install & Customizing GD	SC26-8798
Memo to Licensees	GI10-9890

Figure 31. BASIC Documentation of IBM PL/I for VSE/ESA 5686-069 1.1.0

Publication Title	Order/Form Number
PL/I VSE Programming Guide	SC26-8053
PL/I VSE Language Reference	SC26-8054
PL/I VSE Licensed Programming Specs	GC26-8055
PL/I VSE Install.& Customization GD	SC26-8057
PL/I VSE Messages & Codes	SC26-8059
Debug Tool Users Guide & Reference	SC26-8797
Debug Tool Install & Customizing GD	SC26-8798
Memo to Licensees Full Function	GI11-1707
Memo to Licensees Alternate Function	GI11-1708

Figure 32. BASIC Documentation of IBM C for VSE/ESA 5686-A01 1.1.0

Publication Title	Order/Form Number
C/VSE LPS	GC09-2421
C/VSE Install & Customization GD	GC09-2422
C/VSE Diagnosis Guide	GC09-2426
C/VSE Migration Guide	SC09-2423
C/VSE User's Guide	SC09-2424
C/VSE Language Reference	SC09-2425
Debug Tool Users GD & Reference	SC26-8797
Debug Tool Install & Custom Guide	SC26-8798

Figure 33. BASIC Documentation of MQSeries for VSE/ESA 5686-A06 2.1.1

Publication Title	Order/Form Number
MQSeries Clients	GC33-1632
MQSeries VSE/ESA System Mgmt. Guide	GC34-5364
MQSeries VSE/ESA LPS	GC34-5365
Memo to new Licensees	GI10-2512

Figure 34. BASIC Documentation of CCCA for VSE/ESA 5686-A07 2.1.0

Publication Title	Order/Form Number
Users Guide	SC26-9401
Licensed Programming Specifications	GC26-9408
Program Directory	GI10-5079

Figure 35. BASIC Documentation of X.25 NPSI 5688-035 3.4.0

Publication Title	Order/Form Number
X.25 NCP PSI V3 Planning/Installation	SC30-3470
X.25 NCP PSI V3 Host Programming	SC30-3502
X.25 NCP PSI V3 Licensed Progr Specifications	GC30-9605
X.25 NCP PSI V3 General Information	GC30-3469
Program Directory	GI11-1943

Figure 36. BASIC Documentation of X.25 NPSI 5688-035 3.9.0

Publication Title	Order/Form Number
X.25 NCP PSI V3 General Information	GC30-3469
X.25 NCP PSI V3 Licensed Progr Specs	GC30-9605
X.25 NCP PSI V3 Host Programming	SC30-3502
X.25 NCP PSI V3 Planning/Installation	SC30-3470
Program Directory	GI10-6558

Figure 37. BASIC Documentation of PPFA/370 5688-190 1.1.0.

Publication Title	Order/Form Number
Licensed Program Specifications	G544-3696
User's Guide	S544-5284
Command Quick Reference	G544-3701
PPFA Diagnosis Guide & Reference	LH40-0207
Program Directory	GI10-9679

Figure 38. BASIC Documentation of OGL/370 Base and NLS 5688-191 1.1.0

Publication Title	Order/Form Number
OGL/370 Getting Started	G544-3691
OGL/370 Licensed Progr. Specifications	G544-3697
OGL/370 User's Guide and Reference	S544-3702
OGL Quick Reference	SX35-5032
Program Directory	n/a

Figure 39. BASIC Documentation of HLASM Toolkit 5696-234 1.4.0

Publication Title	Order/Form Number
HLASM Toolkit IDF Users Guide	GC26-8709
HLASM Toolkit Users Guide	GC26-8710
HLASM Toolkit Installation/Customization Guide	GC26-8711
HLASM Toolkit IDF Reference Summary	GC26-8712
Memo to new Licensees	GI10-5051

Figure 40. BASIC Documentation of DB2 VSE/VSAM Transparency 5697-B88 5.1.0

Publication Title	Order/Form Number
VSAM Transparency for VSE Users Guide	SC26-8956
Program Directory	GI11-1723

Figure 41. BASIC Documentation of DB2 Server for VSE/ESA 5697-F42 7.2.0

Publication Title	Order/Form Number
DB2 Server Diagnosis Guide & Reference	LC09-2907
DB2 Server F.VM & VSE Licensed Specs	GC09-2982
DB2 Server SNAP-IX Brochure	GC09-4762
DB2 Server Training Brochure	GC09-4768
DB2 Server Universal Developer's Ed	LK3T-5242
DProP VSE Memo to Users	GI10-5010
DProP VSE Program Directory	GI10-5001
Control Center Program Directory	GI10-5003
Control Center Memo to Users	GI10-5012
Data Restore Program Directory	GI10-5005
Data Restore Memo to Users	GI10-5014
QMF for VSE Installation and Managing	GC27-0721
QMF for VSE Messages & Codes	GC27-0717
QMF for VSE Program Directory	GI10-8330

Figure 42. BASIC Documentation of EP 5735-XXB 1.9.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC31-6201
Program Directory	n/a

Figure 43. BASIC Documentation of EP 5735-XXB 1.14.0

Publication Title	Order/Form Number
Licensed Progr.Specifications	GC31-6201
NCP V7R7 Migration Guide	SC30-3889
Program Directory	GI10-0996

Figure 44. BASIC Documentation of RPG II 5746-RG1 1.3.0

Publication Title	Order/Form Number
Licensed Program Specifications	GC33-6029
Language Reference	SC33-6031
Installation Reference	SC33-6032
Messages	SC33-6033
Auto Report	SC33-6034
User's Guide	SC33-6074
Program Directory	GI10-9770

Figure 45. BASIC Documentation of DFSORT/VSE 5746-SM3 3.4.0

Publication Title	Order/Form Number
Licensed Progr.Specifications	GC26-7038
General Information Brochure	GC26-7039
Application Programmer's Guide	SC26-7040
Installation & Tuning Guide	SC26-7041
Reference Summary	SX26-6008
Messages, Codes & Diagnosis Guide	SC26-7132
Getting Started with DFSORT	SC26-7101
Program Directory	GI10-4513

Figure 46. BASIC Documentation of VSE/ACLR 5746-XE7 1.2.1

Publication Title	Order/Form Number
Licensed Program Specifications	GH12-5241
Program Reference & Operation	SH12-5336
Program Directory	GI11-0645

Figure 47. BASIC Documentation of SDF/CICS 5746-XXT 1.5.0

Publication Title	Order/Form Number
General Information Manual	GH19-8104
Licensed Program Specifications	GH19-8106
Reference Summary	SX11-6100
Operations Guide	SH19-6094
Primer	SH19-6102
Program Reference	SH19-8105
Messages & Codes	SH19-8107
Program Directory	GI11-1548
Program Directory Kanji	GI11-2164

Figure 48. BASIC Documentation of SDF II VSE 5746-XXT 1.6.0

Publication Title	Order/Form Number
SDF II Administration Guide	SH12-6311
SDF II Prototype RT-Services	SH12-6312
SDF II Primer CICS/BMS Programs	SH12-6313
SDF II Introducing Release 6	GH12-6314
SDF II General Information	SH12-6315
SDF II Licensed Specification	GH12-6318
Program Directory	GI10-0424
Memo to Licensees	GI10-0428

Figure 49. BASIC Documentation of DL/I VSE 5746-XX1 1.10.0 and 1.11.0

Publication Title	Order/Form Number
General Information Manual	GH20-1246
Licensed Program Specifications	GH24-5031
Release Guide	SC33-6211
Messages and Codes	SH12-5414
Guide for New Users	SH24-5001
Application Programming: HLP1	SH24-5009
Data Base Administration	SH24-5011
Application & Data Base Design	SH24-5022
Interact. Resource Definition & Utilities	SH24-5029
Application Progr: Call+RQDLI Interf	SH12-5411
Library Guide + Master Index	GH24-5008
Diagnostic Guide	SH24-5002
Recovery/Restart Guide	SH24-5030
Low Lev Code Cont. Check	SH20-9046
Ref Summary: CALL Prog. Interface	SX24-5103
Ref Summary: HLP1 Interface	SX24-5120
Program Directory	GI10-0484

2.5.6 Optional Programs - Licensed Publications and Microfiche

Optionally available publications and microfiches are orderable under the individual Optional program product numbers. Please see the Program Directories of these products for available publications and microfiches.

3.0 Program Support

This section describes the IBM support available for VSE/ESA 2.6.2.

3.1 Preventive Service Planning

Before installing VSE/ESA 2.6.2, check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see whether there is additional Preventive Service Planning (PSP) information that you should know. To obtain this information, specify the following UPGRADE and SUBSET value:

VSEESA2rm

where rm is the current Release/Modification level.

With this upgrade value you will see lists of subset values, one sorted by VSE/ESA BASE programs, and one sorted per VSE/ESA OPTIONAL programs. The subset identifies are derived from the product names, to where the subset identifiers belong.

In addition, there are the following subset values:

BASESERVICE and **OPTPSERVICE**

Using these values, you find the list of APARs and related PTFs per BASE program (BASESERVICE) and OPTIONAL program (OPTPSERVICE). These lists are identified by the products component identifier, which you may find in Chapter 'Optional Programs - List of Product Identifiers.

If you have received VSE/ESA 2.6.2 only from IBM Software Distribution, then before installing VSE/ESA 2.6.2, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information that you should know.

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent. Please refer to Figure 2 on page 7 for component IDs (COMPID) for VSE/ESA 2.6.2

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of VSE/ESA 2.6.0. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following is a list of APARs fixed and integrated since VSE/ESA 2.5, which are NOT visible in the MSHP history file.

COMPONENT 568606601, ..02 (UNIQUE CODE)

PQ21748	PQ21749	PQ21750	PQ21829	PQ22248
PQ22537	PQ22539	PQ24641	PQ24808	PQ26062
PQ26296	PQ26451	PQ26780	PQ27580	PQ28422
PQ28605	PQ29299	PQ30134	PQ31176	PQ31285
PQ31932	PQ34249	PQ34694	PQ34718	PQ36445
PQ36532	PQ36688	PQ36898	PQ38386	PQ38704
PQ39412	PQ39414			
PQ41225	PQ41480	PQ42737	PQ43137	PQ43503
PQ44269	PQ45663	PQ46864	PQ48871	PQ49063
PQ49301	PQ49437	PQ49527	PQ50082	PQ50122
PQ50346	PQ51324	PQ51515	PQ51586	PQ52261
PQ52476				

COMPONENT 568606603 (POWER)

DY44844	DY44845	DY44856	DY44863	DY44880	DY44883
DY44941	DY45017	DY45060	DY45073	DY45095	DY45105
DY45112	DY45124	DY45131	DY45161	DY45185	DY45193
DY45215	DY45219	DY45228	DY45235	DY45240	DY45243
DY45251	DY45283	DY45289	DY45291	DY45276	DY45313
DY45323	DY45337	DY45372	DY45375	DY45404	DY45346
DY45413	DY45414	DY45495	DY45437	DY45444	
DY45464	DY45489	DY45498	DY45511	DY45514	DY45521
DY45543	DY45546	DY45554	DY45555	DY45562	DY45570
DY45584	DY45591	DY45607	DY45613	DY45622	DY45634
DY45647	DY45675	DY45679	DY45701	DY45714	DY45763
DY45769	DY45780				

COMPONENTs 568606604, ..06, ..07, ..08, ..09 (AF)

DY44820	DY44851	DY44858	DY44889	DY45037	DY45063
DY45070	DY45076	DY45097	DY45103	DY45114	DY45123
DY45141	DY45166	DY45167	DY45175	DY45182	DY45190
DY45195	DY45196	DY45229	DY45252	DY45253	DY45254
DY45265	DY45266	DY45275	DY45290	DY45299	DY45306
DY45309	DY45324	DY45328	DY45329	DY45338	DY45347
DY45348	DY45376	DY45383	DY45385	DY45397	DY45423
DY45424	DY45438	DY45452	DY45460	DY45462	DY45466
DY45467	DY45475	DY45507			
DY45502	DY45516	DY45525	DY45526	DY45528	DY45530
DY45537	DY45540	DY45545	DY45547	DY45551	DY45556
DY45557	DY45564	DY45568	DY45573	DY45580	DY45586
DY45593	DY45619	DY45623	DY45626	DY45629	DY45636
DY45639	DY45644	DY45655	DY45658	DY45676	DY45677
DY45683	DY45684	DY45685	DY45686	DY45698	DY45712
DY45726	DY45739	DY45758	DY45767	DY45773	DY45779
DY45785					

COMPONENT 568606605 (VSAM)

DY44838	DY44859	DY44876	DY45044	DY45075	DY45090
DY45107	DY45135	DY45136	DY45137	DY45255	DY45256
DY45264	DY45336	DY45351	DY45310	DY45311	DY45312
DY45409	DY45349	DY45442	DY45491	DY45425	DY45439
DY45473					
DY44814	DY44996				
DY45529	DY45536	DY45538	DY45539	DY45571	DY45589
DY45596	DY45612	DY45617	DY45618	DY45630	DY45631
DY45645	DY45654	DY45661	DY45667	DY45687	DY45693
DY45696	DY45751	DY45764	DY45778		

COMPONENT 568606630 (OSA/SF)

PQ06993	PQ06292	PQ03091	PQ11504	PQ16071	
---------	---------	---------	---------	---------	--

COMPONENT 568606610 (ICCF)

PN73312	PN73314	PN79224	PN80038	PN85665	PN88902
PQ11175					
PQ22701	PQ30054	PQ33539	PQ22257	PQ36354	

COMPONENT 568606611 (FASTCOPY)

DY44060	DY44121	DY44214			
---------	---------	---------	--	--	--

COMPONENTs 568606612, 568606616 (REXX)

PQ22016	PQ24982	PQ33431	PQ31258	
PQ41345	PQ42277	PQ44022	PQ47519	PQ51117

COMPONENT 568606613 (OLTEP)

DY44219

TCP/IP 1.4 5686-A0400

PQ11216	PQ11589	PQ11981	PQ12876	PQ14716	PQ14718
PQ14724	PQ16251	PQ18295	PQ18354	PQ19496	PQ19507
PQ19603	PQ19780	PQ20942	PQ21691	PQ24008	PQ26600
PQ27233	PQ27252	PQ28760	PQ29052	PQ29053	PQ39048
PQ39540	PQ39277				
PQ40278	PQ43707	PQ43576	PQ43577	PQ43581	PQ45314
PQ45531	PQ46046	PQ46047	PQ46048	PQ46049	PQ46050
PQ46051	PQ46052	PQ46053	PQ46054	PQ46055	PQ46056
PQ46057	PQ46058	PQ46059	PQ46060	PQ46061	PQ46062
PQ46063	PQ46064	PQ46065	PQ52348		

LE/VSE 1.4.2 5686-06632 (LE Base)

PQ06256	PQ23918	PQ06598	PQ39636	PQ09262	PQ42344
PQ41085	PQ42663	PQ43208	PQ45709	PQ48405	PQ51136
PQ53289					

LE/VSE 1.4.2 5686-06633 (LE C)

PQ41086	PQ42688	PQ43967	PQ44085	PQ45676	PQ45681
PQ47358	PQ51216				

VSE Connectors 5686-06635

PQ41480	PQ49063	PQ50122	PQ51324	PQ52261
PQ56023	PQ56024	PQ56316	PQ60611	PQ60612
PQ54703	PQ56517	PQ59275		

LE/VSE 1.4.2 5686-09403 (LE COBOL)

PQ40807	PQ41161	PQ41162	PQ42417	PQ42620
PQ43221	PQ45580	PQ48232	PQ48684	PQ49487
PQ50085	PQ51144			

LE/VSE 1.4.2 5686-09406 (LE PL/I)

PQ41162	PQ44662	PQ48684
---------	---------	---------

CICS/TS 1.1.1 5648-054

PQ26158	PQ26159	PQ26160	PQ26161	PQ26165	PQ26166
PQ26170	PQ26632	PQ26634	PQ26635	PQ26636	PQ26639
PQ26640	PQ26642	PQ26644	PQ26789	PQ26792	PQ27517
PQ27956	PQ27959	PQ28334	PQ28617	PQ28642	PQ29185
PQ29289	PQ29570	PQ29694	PQ30170	PQ30707	PQ31254
PQ33640	PQ33689	PQ34164	PQ34772	PQ35402	PQ35598
PQ36567					

Note: For APARs integrated into 5648-054 CICS Transaction Server 1.1.0, please see the 5648-054 Program Directory.

4.2 Service Level Information

There is no information for VSE/ESA 2.6.2 at this time.

4.3 Cumulative Service Tape

There is no cumulative service tape for VSE/ESA 2.6.2.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating VSE/ESA 2.6.2.

5.1 System Requirements

5.1.1 Operating System Requirements

VSE/ESA 2.6.2 is an operating system itself and does not require another operating system to run under. Anyway, VSE/ESA 2.6.2 can run as a guest system under the following VM/ESA systems:

- VM/ESA Version 2, Release 4.0 (or later)
- z/VM Version 3 (or later), where VSE/ESA runs in 31-bit mode.

Note that VSE/ESA 2.6.2 runs with supervisor mode ESA only. If you are migrating from a pre VSE/ESA V2 system and running a supervisor with MODE-VM or MODE=VMESA, please see *VSE/ESA Planning*, SC33-6703, Chapter: Planning for Migration.

Additional information is available in

- *VM/ESA Version 2 Release 3, Running Guest Operating Systems*, SC24-5755,
- *z/VM Version 3 Release 1, Running Guest Operating Systems*, SC24-5950,
- *z/VM Version 4 Release 1, Running Guest Operating Systems*, SC24-5997
- *VSE/ESA Installation*, SC33-6704.

5.1.2 VSE/ESA Processor Support

VSE/ESA 2.6.2 supports ESA/390 **uniprocessors** and **multiprocessors** of the following IBM System/390 processor series:

- IBM eServer zSeries 800
- IBM eServer zSeries 900
- IBM S/390 Multiprise 2000
- IBM S/390 Multiprise 3000
- IBM S/390 Integrated Server
- IBM S/390 Parallel Enterprise Server - Generation 3
- IBM S/390 Parallel Enterprise Server - Generation 4
- IBM S/390 Parallel Enterprise Server - Generation 5
- IBM S/390 Parallel Enterprise Server - Generation 6
- IBM S/390 9672 Parallel Enterprise Server
- IBM ES/9000

VSE/ESA 2.6.2 provides "n-way" support for the multiprocessor models of these processor series through the VSE/ESA Turbo Dispatcher.

VSE/ESA is also able to run on the following System/390 uniprocessors: IBM PC Server 500 System/390 and IBM RS/6000 with S/390 Server-on-Board feature.

Note that VSE/ESA can run as a guest system under VM/ESA or z/VM on all processors supported by VM/ESA or z/VM.

5.1.3 Processor Details

Please refer to *VSE/ESA Planning SC33-6703* for an actual list of the processors supported by VSE/ESA.

5.1.4 Minimum System Configuration

VSE/ESA 2.6.2 requires the following minimum system configuration:

- 16MB of processor (real) storage.
Since the processor storage available is usually much higher, this value is mainly of interest if VSE/ESA is running in LPAR mode or under VM/ESA.
- About 916MB (environment A) or about 1030MB (environment B) of disk device space on two volumes, DOSRES and SYSWK1, as outlined in *VSE/ESA Planning, SC33-6703*.
- A tape or cartridge unit supporting the distribution medium.
- A system printer. This may be a channel-attached or adapter-attached printer controlled by VSE/POWER or a local terminal printer controlled by CICS. A terminal printer should have a minimum speed of 300 lines per minute.
- A display station. This can be a terminal or programmable workstation of any supported type.
- The system console. This can be an integrated console or any display station supported as system console.

5.1.5 DASD Storage Requirements

Please see: *VSE/ESA Planning, SC33-6703* for storage requirements.

6.0 Special Considerations

Information on VSE/ESA base and optional programs

6.1 Tips and Hints for VSE/ESA Base Programs

6.1.1 VSE/ESA Fast Service Upgrade (FSU)

There will be no Fast Service Upgrade provided from releases prior to VSE/ESA 2.4.0. For an FSU from VSE/ESA 2.4.x, be aware of the changed tape layout. In any case, first run the prepare step, afterwards you should run the FSU installation. **Do not run a downlevel check** in any case of a release upgrade. For preparation tasks and additional space requirements, refer to the *Planning* manual.

There are new applications and selection panels. After the FSU, upgrade the application profiles and selection panels as described in the manual.

After FSU is finished, you should update the CICS TS transaction security settings using the merge key (PF6) on the 'Dialog Definition Transaction Security' (fastpath 28). For additional post-FSU tasks refer to the *System Upgrade and Service* manual.

With VSE/ESA 2.6.2 the system default FCT settings are migrated into the CICS CSD file. After the FSU from VSE/ESA 2.4 message 'DFHAM4803F applid Install failed because an existing definition for file 'FILE' could not be deleted' is displayed. This is due to the fact that the SIT refers to FCT=SP and therefore the FCT definition is used instead of the CICS RDO definition. You should change the SIT to FCT=NO to avoid the message. CICS will use the CSD base file definition.

If FSU is used to upgrade from VSE/ESA 2.6.0 or 2.6.1, the downlevel check and also FSU installation (step DTRFSU15) will issue the message:

```
M231D INSTALLATION WILL OVERWRITE PRODUCT
DS21G0 ENTER "DELETE" OR "KEEP"
```

Please enter "KEEP".

6.1.2 SSL Client Authentication

With VSE/ESA 2.6.2 it is possible to assign a VSE user ID to a client certificate and use the access rights of this user ID for the client. Therefore the service BSSDCERT was introduced. Details about BSSDCERT can be found at *VSE/ESA e-business Connectors User's Guide* also available from the VSE home page.

For CWS/SSL see also 'CICS TS for VSE/ESA: Enhancements Guide'.

6.1.3 Unattended Node Support - Environment C

Environment C is only supported if an FSU is performed from a VSE/ESA 2.4 Unattended Node system. Be aware of the fact that VSE/DSNX and VSE/OCCF are not delivered any longer as optional products. Both products are part of the Unattended Node support and need to be re-installed from VSE/ESA 2.4.

6.1.4 OS/390 Library - API

This library contains members for the OS/390 emulation environment. The members contained in this library are not intended for general use by VSE/ESA customers but may be required by vendor products. Vendors who have a need for these interfaces should contact VSE/ESA development by sending a note to VSE@de.ibm.com

6.1.5 Restriction of the MSHP TAILOR Function

The MSHP TAILOR function together with one of the following control statements

```
EXECute ASSEMBLY  
EXECute ASSEMBLY,LNKEDT  
EXECute ASSEMBLY,LIBR
```

for generating library members is no longer supported with VSE/ESA Version 2.

Message

```
0S05I PHASE ASSEMBLY NOT FOUND
```

will be issued if it is attempted to use this function. Starting with VSE/ESA 2.1, the DOS/VSE Assembler (ASSEMBLY) has been replaced by the High Level Assembler for VSE (ASMA90). The MSHP TAILOR function does not work with the High Level Assembler for VSE.

6.1.6 Implementation of LCDD for the 3494 Tape Library Dataserver

The LCDD (Library Device Control Driver for VSE/ESA) source is included in VSE/ESA 2.6.

For LCDD commands please review GC35-0176, but be aware that LCDD is installed into IJSYSRS.SYSLIB and the sample startup JCL to tailor is in ICCF LIB 59.

6.1.7 Device Support Facilities, Release 17

VSE/ESA 2.6.2 contains a new release of ICKDSF: 1.17. For details please see the Program Directory for Device Support Facilities Release 17, GI11-1238, and the DSF User's Guide and Reference Release 17, GC35-0033.

Both publications are available e.g. from the VSE home page at

<http://www-1.ibm.com/servers/eserver/zseries/os/vse/>

6.1.8 HLASM Support with ACF/SSP Version 4, Release 7 and 8

With ACF/SSP 4.7 and later, ACF uses the High Level Assembler for NCP and EP compiles. There are a couple of macros with the same name as for VSE Central Functions causing assembly errors. It is recommended to change the search chain for source members and put PRD1.MACLIB ahead of PRD2.COMM, the target library for ACF/SSP.

6.1.9 CICS/TS

IMPORTANT: Do not specify SEC=NO in the SIT, SEC=NO means no security checking in CICS/TS at all, that is no signon security and also no transaction security. SEC=YES by default will use the basic security manager (BSM) as external security manager.

CICS/TS SIT setting SVA=NO changed to SVA=YES. To allow CICS coexistence, exclude list DFH\$SVEX is used.

6.1.10 SVA Setup

With VSE/ESA 2.6.2 LE Base and C-Runtime routines are loaded into the SVA. For details see *VSE/ESA Planning SC33-6703*. In order to make sure the related programs can also be used in CICS/TS, default setting of SVA in the SIT was changed from NO to YES.

6.1.11 Telnet Terminal Definition and Autoinstall

The default terminal logmodes used by TCP/IP Telnet do not have the extended data stream flag set. Without this flag set, file transfer using IND\$file transaction will not work. It is recommended to use the logmodes with the query facility instead of the default modes. An example would be:

```
DEFINE TEL, ID=MYTEL, TAR=DBDCCICS, TERM=D1000, CO=20, LOGMODE=SP3272QN, -  
        LOGMODE3=SP3272QN, LOGMODE4=SP3272QN, LOGMODE5=SP3272QN
```

If only extended data stream is wished, without the query facility, following definition for the Telnet daemon is appropriate:

```
DEFINE TEL, ID=MYTEL, TAR=DBDCCICS, TERM=D1000, CO=20, LOGMODE=SP3272EN, -  
        LOGMODE3=SP3273EN, LOGMODE4=NSX32704, LOGMODE5=NSX32705
```

In any case, non SNA logmodes have to be specified. With the logmodes above, the logtab IESINCLM has to be specified in the VTAM application definition:

```
D100001 APPL AUTH=(ACQ), MODETAB=IESINCLM
```

In the above samples, logmodes for terminal models 3, 4 and 5 are also added. In case of the query facility modes, the logmode can also be specified with the MENU definition, in this case only one LOGMODE parameter is required: LOGMODE=SP3272QN.

6.1.12 Language Environment for VSE/ESA (LE/VSE 1.4.2)

6.1.12.1 Overview: Except for the DBCS Locale component, all LE/VSE components are shipped as part of the VSE/ESA 2.6.2 base system.

The following table lists the new component identifiers (COMP IDs) and component level codes (CLCs).

Component-ID	CLC	Description
5686-066-32	65K	LE Common base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-066-33	65L	LE C-specific base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-066-34	65M	Optional LE DBCS Locale Component (see note below)
5686-094-03	6EW	LE COBOL-specific base and CICS, containing information written in: - Uppercase and mixed-case US English - Japanese NLF
5686-094-06	6EX	LE PL/I-specific base, containing information written in: - Uppercase and mixed-case US English - Japanese NLF

Notes:

1. The LE Base (\$SVACEE) and C Runtime (\$SVAEDCM) are pre loaded in the SVA. Please also see the *VSE/ESA Planning Guide*, SC33-6703.

Please notice that option modules (e.g.) CEECOPT.PHASE and CEEDOPT.PHASE are included in \$SVACEE. Changing run-time options for batch and CICS environment therefore requires a SVA re-load via SET SDL command from BG partition. Supplied skeletons CEEWCOPT and CEEWDOPT in ICCF library 62 will take this into consideration.

2. The optional LE/VSE 1.4.2 DBCS locale component is shipped on the VSE/ESA 2.6.2 Extended Base tape.

For more information, please see the *VSE/ESA Release Guide* SC33-6718 which is also available on the *VSE/ESA Softcopy Collection Kit* SK2T-0060.

6.1.12.2 Modifying the Behavior of the COBOL Reusable Environment (optional):

The COBOL reusable environment behavior can be modified to control how program checks are handled that occur in a non-Language Environment conforming driver. The COBOL reusable environment is established with the RTEREUS run-time option or a call to IGZERRE INIT.

Use the IGZWARRE sample job to change the behavior of COBOL's reusable environment. You must modify the IGZRREOP macro invocation, depending on the function that you want.

To run with VS COBOL II and DOS/VS COBOL run-time compatibility mode (i.e., the user has control of program checks that occur when the COBOL reusable environment is dormant, resulting in an additional performance cost), use:

- IGZRREOP REUSENV=COMPAT

To run with optimum performance (i.e., Language Environment intercepts all program checks that occur when the COBOL reusable environment is dormant and converts them to CEE3321C/CEE3320C, resulting in improved performance), use:

- IGZRREOP REUSENV=OPT

See *LE/VSE Customization Guide* for related information.

6.1.12.3 Mixed Language Applications under LE/VSE (involving Assembler): When creating or maintaining mixed language applications in an LE/VSE environment various supported techniques are available. In general the following macros and services can assist to ensure operating LE/VSE-conform.

- LE/VSE assembler macros (CEEENTRY/CEETERM)
- LE/VSE preinitialization service (CEEPIPI)
- LE/VSE C-specific macros (EDCPRLG/EDCEPIL)

Examples and further details not covered here are available on LE/VSE Home Page via "<http://www.ibm.com/servers/eserver/zseries/os/vse/le/samples.htm>"

6.1.12.4 Summary of LE/VSE Customization and IVP-Jobs in IUI: This is a list of LE/VSE related jobs, pre-installed in ICCF library 62. These members can assist you in various verification and customization tasks.

ICCF Member	Purpose and Function
CEECCSD	LE/VSE base program definitions (CICS)
CEEWCCSD	Skeleton for enabling LE/VSE program definitions (CICS)
CEEWCEXT	Identify abnormal termination exit to LE/VSE (CICS)
CEEWCOPT	Installation-wide default LE/CICS run-time options
CEEWCXIT	Installation-wide assembler user exit

ICCF Member	Purpose and Function
CEEWDCCD0	Card-device run-time LIOCS phase
CEEWDDU0	Diskette-device run-time LIOCS phase
CEEWDEXT	Identify abnormal termination exit to LE/VSE (batch)
CEEWDOPT	Installation-wide default LE/batch run-time options
CEEWDPR0	Printer device run-time LIOCS phase
CEEWDXIT	Installation-wide assembler user exit (batch)
CEEWHLLX	High level language user exit
CEEWINFG	Collect system status information related to LE/VSE
CEEWINFR	Summarize/condense information generated via CEEWINFG
CEEWIVP1	Verification of Assembler program interface
CEEWIVP2	Verification of LE/VSE COBOL Component
CEEWIVP3	Verification of LE/VSE PL/I Component
CEEWIVP4	Verification of LE/VSE C Component
CEEWIVP5	Verify the LE/VSE C Prelink Utility
CEEWMSVA	LE/VSE base routines eligible for putting into the SVA
CEEWUOPT	Application specific run-time options
CEEWUXIT	Application specific assembler user exit
EDCCCS	LE/VSE C-specific program definitions (CICS)
EDCLLOCL	Changing the C locale time information
EDCUCSD	Optional codeset converters (CICS)
EDCWMSV1	LE/VSE C-specific routines eligible for SVA
IBMCCSD	LE/VSE PL/I-specific program definitions (CICS)
IBMSVA1	LE/VSE PL/I-specific routines eligible for SVA
IGZCCSD	LE/VSE COBOL-specific program definitions (CICS)
IGZWARRE	Customize behavior of COBOL reusable environment
IGZWEPC	COBOL COBPACK tailoring
IGZWEPC	COBOL COBPACK tailoring
IGZWEPCO	COBOL COBPACK tailoring
IGZWESV1	LE/VSE COBOL-specific routines eligible for SVA
SKLE370	LE/VSE CICS CSD entries in GROUP(CEE) (in ICCF lib 59)
CEETSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE Base under CICS TS (pre-customized for VSE/ESA 2.6.2)
EDCTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE C under CICS TS (pre-customized for VSE/ESA 2.6.2)

ICCF Member	Purpose and Function
IGZTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE COBOL under CICS TS (optional !)
IBMTSCSD (*)	Sample code for USESVACOPY(YES) alteration, LE PL/I under CICS TS (optional !)
EDCXDLY (#)	Sample C/VSE code exploiting new LE/VSE Callable Service CEE5DLY (introduced with LE 1.4.2)
IGZTDLY (#)	Sample COBOL/VSE code exploiting new LE/VSE Callable Service CEE5DLY (introduced with LE 1.4.2)

Notes:

1. Members marked (#) provide sample code for new LE/VSE Callable Service CEE5DLY. Please refer to the LE/VSE 1.4.2 overview section in the *VSE/ESA Release Guide* for further details.
2. Skeleton SKLE370 is located in ICCF lib 59. It reflects a pre-customized status of the shipped CICS region (for VSE/ESA 2.4 (and later) this is a CICS TS based DBDCCICS). Hence there is no need to run SKLE370 unless LE/VSE definitions are modified or reestablished. For example this may apply when a second CICS region is built. Be aware that you need LE/VSE C-specific support in order to start CICS TS, respectively make use of Debug Tool for VSE/ESA (orderable feature of LE/VSE enabled compilers).
3. All members marked (*) are sample code containing LE/VSE 1.4.2 component specific DFHCSDUP ALTER commands for USESVACOPY(YES) enablement under CICS Transaction Server. Please be aware that this change has to go along with a CICS SIT parameter setting of SIT SVA=YES as well as load of corresponding \$SVAxxxx loadlists. For details and possible impacts in a CICS coexistence environment please refer to CICS TS documentation and VSE/ESA Planning Guide.

For VSE/ESA 2.6.2 the delivered system is pre-customized with SIT SVA=YES:

- a. Making use of SVA loadlists \$SVACEE (LE/VSE 1.4.2 Base) and \$SVAEDCM (LE/VSE 1.4.2 C).
- b. Shipping USESVACOPY(YES) enabled CICS CSD definitions - via GROUP(CEE) - for LE/VSE 1.4.2 modules contained in these loadlists. Therefore do NOT run CEETSCSD and EDCTSCSD on this level.

Additional information:

A set of new Z-books (allowing direct DFHCSDUP input) was provided to support the preload issue. Actually members CEETICSD.Z and EDCTICSD.Z which are integrated in common base install and service upgrade procedures. The LE COBOL and LE PL/I specific Z-books (IGZTICSD and IBMTICSD) complement this set (but aren't preloaded).

6.1.12.5 Languages and CICS Transaction Server: CICS Transaction Server for VSE/ESA supports:

- All LE/VSE conforming compilers (C/VSE, COBOL/VSE, PLI/VSE)
- High Level Assembler with LE/VSE
- DOS/VS COBOL and VS COBOL-II (if relinked / using LE run-time)

CICS Transaction Server does not support:

- DOS PL/I and C/370 applications (recompilation with LE-conforming compiler is required)
- RPG-II (not supported by LE, either)

6.1.12.6 Generating Applications Capable of Running Under LE/VSE: Be aware of the Interactive Interface support (Primary Library, OPTION 8, translate and compile ...) in order to build your applications.

This will ensure usage of language independent stubs such as CICS DFHELII, related options etc.

Note: Be aware that every CICS TS related transaction needs to be "security-enabled" prior to its first execution. The Interactive Interface provides associated support via dialog 'Define Transaction Security' fastpath 28.

6.1.12.7 AMODE 24 Applications in a LE/VSE-initialized CICS Environment: Under CICS, the supplied default LE/VSE run-time options ALL31(ON) and STACK(4K,4K,ANYWHERE,KEEP) are present.

These settings improve performance and storage utilization for a CICS region running AMODE31 programs or applications that use CICS services to invoke AMODE24 programs from AMODE31 applications. This is applicable unless AMODE31 programs dynamically call AMODE24 programs (which are not automatically enabled for AMODE switching). In such cases a setting off ALL31(OFF) and STACK(4K,4K,BELOW,KEEP) is recommended/required. You may wish to implement it by use of an appropriate CEEUOPT.OBJ linked with an application.

Note: LE/VSE Customization Guide, Chapter 2 shows an example on how to build a CEEUOPT (application specific run-tune option module).

Detailed information about run-time option changes are available in *IBM LE/VSE R4 Customization Guide*, SC33-6682.

6.1.12.8 Run-Time Options to Use with Caution: You may find these tips valuable in your environment:

- Use LE/VSE run-time option **TERMTHDACT(UADUMP)** for diagnosis in a batch environment. It generates a VSE partition dump and a corresponding LE/VSE dump. For problem determination under both CICS/VSE and CICS TS it is recommended to specify **TERMTHDACT(DUMP)**.

Please also be aware that use of **TERMTHDACT (UADUMP)** with database managers will bypass backout processing that may be required after application failure. Any files still open at point of failure will not be closed. Additional reference will be available via Info APAR II11817.

- The default run-time option **HEAP(...,ANYWHERE,..)** is important because of the correlation to COBOL compile options **DATA(24/31)**, **RMODE** and **RENT**. Be aware that there is a 64k limit for CICS/VSE **GETMAIN** storage requests below the 16MB line. Avoid **HEAP(BELOW)** it ignores the COBOL **DATA(xx)** compile setting for location of dynamic data areas (such as working storage) !
- Setting **TRAP(ON,MAX)** ensures LE/VSE's integrity when handling abnormal conditions. **TRAP(OFF)** should only be activated on request of IBM service personal.
- The **3rd parameter** of the **STORAGE** run-time option can be of importance in PL/I migration environments. It deals with PL/I automatic variable storage and provides an initialization service in case the programming style did not consider start values for variables. However the associated performance impact can be significant (dependent on how the application is coded). Since it deals with the LE/VSE stack it can degrade overall run-time performance for all languages ! Therefore a setting of **STORAGE(00,NONE,00,xk)** should be used very strictly, respectively application specific (e.g. via tailored **CEEUOPT.OBJ** or **JCL PARM** override).

6.1.12.9 CICS/VSE Table Parameter Settings (optional environment): Please ensure that you update the following CICS table(s) if you intend to run COBOL/VSE, VS COBOL II, DOS/COBOL or PLI/VSE programs under control of LE/VSE:

CICS/VSE System Definition Table (SIT):

- **COBOL2=NO**

LE/VSE will automatically provide you with the necessary run-time support for VS COBOL II.

- **PL1=NO**

This is the recommended setting in order to indicate to CICS/VSE that LE/VSE is going to provide related run-time support. In case of LE/VSE this must be a PLI/VSE compiled program unit. On the contrary **PL1=YES** assumes involving the obsolete DOS PL/I 1.6.0 run-time library which went out-of-service 06/30/1997.

CICS/VSE Processing Program Table (PPT): (VS COBOL II only)

If there are VS COBOL II run-time PPT entries

- Do **not** include copy-book **IGZ9PPT.A** in your PPT
- Recompile your CICS PPT in order to update control information

- Recycle CICS via **cold-start**. This should be done once in conjunction with topic "Member SKLE370 provides LE/VSE support for CICS/VSE".
- If there are CICS CSD entries for VS COBOL II modules IGZCPAC & IGZCPCC (instead of macro definitions) - ensure they are removed

If you plan to use VS COBOL II with the LE/VSE run-time under CICS/VSE, you should observe the following when modifying your CICS/VSE PPT:

- Do **not** include the VS COBOL II copy-book, **IGZ9PPT.A** in your PPT. Instead include the copy-book, **IGZCPPT.A**, supplied in PRD2.SCEECICS.
- Recompile your CICS PPT
- Recycle CICS via **cold-start**

6.1.12.10 CICS Translator Options Required for COBOL Applications: For COBOL/VSE or VS COBOL II online programs (VS COBOL II must at least be relinked to involve LE/VSE run-time) one of the following CICS/VSE or CICS TS translator options must be used. This will apply to mainline programs as well as to COPY-books that may be translated separately.

- XOPTS(**COBOL2**) was a minimum setting for VS COBOL II type programs, preferable matching the ANSI74 standard. It may also be used in a COBOL/VSE context.
- XOPTS(**ANSI85**) implies COBOL2 and can also be applicable for COBOL/VSE or VS COBOL II compiled program units. However these settings are appropriate in case the application exploits ANSI85 functionality such as nested programs.
- XOPTS(**COBOL3**) is a CICS TS only translator option which you may wish to use as an indicator for a COBOL/VSE or SAA AD/Cycle COBOL/370 cross compile program unit. It implies ANSI85 and COBOL2. By the way CICS TS doesn't support the SIT COBOL2 parameter since the run-time must be LE/VSE. Please refer to CICS Transaction Server documentation for more details.

Note: Sometimes VS COBOL II programs, translated without either of these CICS translator options, executed without error with the former VS COBOL II run-time. However such programs will not execute successfully under LE/VSE and are likely to use the old and obsolete COBOL specific CICS stub DFHECI.

6.1.12.11 LE/VSE Related Service via Ordering PSP Bucket Please use VSE/ESA specific PSP buckets for upgrading LE/VSE. This package is named "VSEESA26x" (where x is the modification level). It can be ordered via IBM service teams. The related subset for LE/VSE 1.4.2 is named "IBMLANG/65K". Of further interest can be CICS subsets ensuring synchronization with LE/VSE.: Further general service assist will be available via the Service Update Facility (SUF):

<http://www.ibm.com/servers/eserver/zseries/zos/suf/>
or <http://techsupport.services.ibm.com> .

6.1.12.12 LE/VSE Messages: In addition to the LE/VSE messages described in the manual *LE/VSE Debugging & Run-Time Messages*, the following messages may also be shown:

CEEL011S REQ=reqid Failed at: block VSE-RC/REAS=??? / PWR-RC/FDBK=???/??

Explanation While attempting to output a LE dump to the VSE/POWER LSTQ, a failure occurred. The VSE-RC/REAS fields refer to XPCC return code and reason codes. The PWR-RC/FDBK fields refer to VSE/POWER Spool access return and reason codes. Dump production for this application is prematurely terminated.

Programmer Response Refer to the appropriate VSE manual using the displayed return and reason codes. Correct the error referred to before attempting to use the LSTQ output destination again.

System Action Dump production is terminated. The dump is lost.

Symbolic Feedback Code None.

Note: In case you intent to exploit "LE/VSE-CICS dump to VSE/POWER LSTQ" support, please ensure installing PTF UQ70716 (for APAR PQ67005) on top of VSE/ESA 2.6.2.

CEE3557W - Write to LSTQ has failed. Dump production aborted for this process

Explanation While attempting to output a LE dump to the LSTQ destination, a failure has occurred. Refer to message CEEL011S displayed on the VSE operators console for more information.

Programmer Response Refer to message CEEL011S for error diagnosis information.

System Action The application terminates and the dump is lost.

Symbolic Feedback Code None.

Note: In case you intent to exploit "LE/VSE-CICS dump to VSE/POWER LSTQ" support, please ensure installing PTF UQ70716 (for APAR PQ67005) on top of VSE/ESA 2.6.2.

6.1.12.13 LE/VSE Documentation Links

- <http://www.ibm.com/servers/eserver/zseries/os/vse/le/books.htm>
The link also provides a 'doc sorted by LE/VSE release' view.
- *LE/VSE V1R4 Programming Reference* has been updated for the March 2002 Softcopy Collection Kit SK2T-0060 and placed into the VSE/ESA 2.6 bookshelf.

6.1.13 TCP/IP for VSE/ESA

With VSE/ESA 2.6.2 APAR PQ63021 (aka SERV140E) was installed as the current service level for TCP/IP for VSE/ESA (CLC 10Q).

The functional update of the TCP/IP for VSE/ESA 1.3 program (IBM program number 5686-A04) to release level 1.4 was introduced with APAR PQ29053, which is included in VSE/ESA 2.6.2.

The documentation for TCP/IP 1.4 for VSE/ESA is available on the VSE/ESA 2.6.2 Softcopy Collection CD-ROM SK2T-0060.

On the CD-ROM you will find 7 books with the original program description from Connectivity Systems Incorporated, the provider of the TCP/IP for VSE 1.4 program, plus one manual describing the setup of the TCP/IP for VSE/ESA program IBM is providing. The books are as follows:

- TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information
- TCP/IP for VSE 1.4 Installation Guide
- TCP/IP for VSE 1.4 User's Guide
- TCP/IP for VSE 1.4 Commands
- TCP/IP for VSE 1.4 Programmer's Reference
- TCP/IP for VSE 1.4 Messages and Codes
- TCP/IP for VSE 1.4 Optional Products
- TCP/IP for VSE 1.4 SSL for VSE User's Guide

The manual 'TCP/IP for VSE/ESA - IBM Program Setup and Supplementary Information' (SC33-6601) replaces the former 'TCP/IP for VSE/ESA User's Guide'. All the available documentation for the TCP/IP for VSE/ESA 1.4 program is described in that manual in Chapter 1.

All the documentation on the CD-ROM is available in PDF format only. You can use the Adobe Acrobat Reader to view and print the documentation. If you do not already have an Acrobat Reader installed, or if you need information on installing and using an Acrobat Reader, see the Adobe Web site at

<http://www.adobe.com>

You will find the documentation for this new release of TCP/IP for VSE/ESA also on the VSE Home Page at

<http://www-1.ibm.com/servers/eserver/zseries/os/vse/>

For a detailed description of

- How to install TCP/IP Keys
- The TCP/IP demo mode
- Dependencies when you are using a license from Connectivity Systems.

please see the manual *TCP/IP for VSE/ESA IBM Program Setup and Supplementary Information* SC33-6601.

6.1.14 Installation of VSE Connector Client

The installation of the VSE Connector Client has been changed with VSE/ESA 2.6.1. The W-book IESINCON.W, which is shipped in PRD1.BASE, is now a ZIP-file that contains the following files:

- install.class, the VSE Connector Client code
- install.sh, an install script for Unix/Linux
- install.bat, an install batch-file for Windows
- install.cmd, an install batch-file for OS/2

To install the VSE Connector Client on your workstation:

- make sure, a Java Development Kit (JDK) 1.3 or Java Runtime Environment (JRE) 1.3 or higher is installed on your workstation. You can download IBM JDKs and JREs for various platforms from <http://www.ibm.com/java/jdk/download/>
- Download the W-book to a new empty directory on your workstation
- Rename the W-book to iesincon.zip
- Extract the ZIP-file using any ZIP-tool, like pkzip, winzip, etc.
- Run the install batch file or shell script related to your platform
- An install wizard will prompt you for further installation options

Also check the latest news on our VSE/ESA e-business Connectors and Utilities web page on <http://www.ibm.com/servers/eserver/zseries/os/vse/support/vseconn/conmain.htm>

6.1.15 Installation of the Java-Based TCP/IP for VSE/ESA Configuration Dialog

Starting with VSE/ESA 2.6 there is a new Java-based version of this dialog. The former platform dependent C-version (Windows and OS/2 only) is no longer supported. The dialog is shipped as W-book IPNCFGE.W in PRD1.BASE. There are NLS-versions for English, German, Japanese, and Spanish. All NLS-versions are contained in IPNCFGE.W.

The W-book is a ZIP-file, which contains the following files:

- install.class, the dialog code
- install.sh, an install script for Unix/Linux
- install.bat, an install batch-file for Windows
- install.cmd, an install batch-file for OS/2

To install the dialog on your workstation:

- make sure, a Java Development Kit (JDK) 1.3 or Java Runtime Environment (JRE) 1.3 or higher is installed on your workstation. You can download IBM JDKs and JREs for various platforms from <http://www.ibm.com/java/jdk/download/>
- Download the W-book to a new empty directory on your workstation

- Rename the W-book to ipncfge.zip
- Extract the ZIP-file using any ZIP-tool like pkzip, winzip, etc.
- Run the install batch file or shell script related to your platform
- An install wizard will prompt you for further installation options

6.1.16 CWS Client Authentication

Starting with VSE/ESA 2.6.1 the CICS Web Support (CWS) supports SSL Client Authentication. The Interactive Interface now includes a new dialog and various service functions that can be used with CWS to implement client authentication and manage client certificates.

For more information, check the following books:

- *CICS Transaction Server for VSE/ESA V1R1 Enhancements Guide*, GC34-5763.
- *VSE/ESA e-business Connectors User's Guide*, SC33-6719

and the VSE/ESA Internet page at <http://www.ibm.com/servers/eserver/zseries/os/vse/>

6.1.17 Known Impact on Vendor Software

If you are using products from Computer Associates - FAQS or EPIC, please make sure that you apply the following PTFs:

LO05042 for FAQS/PCS
EP51270 for EPIC

6.2 Publication Updates

6.2.1 Accessing VSE/ESA Performance Documentation

You can receive up-to-date performance information for VSE/ESA from the Internet or from the VSE CD-ROM Collection SK2T-0060.

From the internet, access and get these documents via the VSE/ESA homepage
<http://www-1.ibm.com/servers/eserver/zseries/os/vse/library/vseperf.htm>

On the CD-ROM Collection, all the performance documents are on disc 3.

The following files or documents are available, all of them are in PDF format (ADOBE Acrobat Reader):

FILE	DOCUMENT TITLE
VE13PERF.PDF	IBM VSE/ESA 1.3/1.4 Performance Considerations
VEVMPERF.PDF	IBM VSE/ESA VM Guest Performance Considerations
VE21PERF.PDF	IBM VSE/ESA V2 Performance Considerations
VE21TDP.PDF	IBM VSE/ESA Turbo Dispatcher Performance
VEIOPERF.PDF	IBM VSE/ESA I/O Subsystem Performance Considerations
VEPERACT.PDF	IBM VSE/ESA Hints for Performance Activities
VETCPPER.PDF	VSE/ESA TCP/IP Performance Considerations
VESORTP.PDF	IBM DFSORT/VSE Performance Considerations
VECICSTS.PDF	IBM VSE/ESA CICS Transaction Server Performance Considerations
VE25PERF.PDF	IBM VSE/ESA 2.5 Performance Considerations

6.3 Tips and Hints for VSE/ESA Optional Programs

6.3.1 VisualAge Generator Server runtime

The documentation delivered with Visual Age Generator Server 1.1.0 for VSE/ESA describes the setup for a VSE/ESA 2.4 system. So here are the changes that are necessary to run the Generator Server for VSE/ESA on a VSE/ESA 2.6 system with CICS TS 1.1.1:

EZEPRIN needs to be a standard system label, because CICS TS 1.1.1 doesn't work with temporary labels (DLBL statements) in the JCL

Description: The label EZEPRIN is defined in member ELAVCICS.A and usually you have to add the label to the CICS startup job, but the temporary 'DLBL EZEPRIN' statement doesn't work and the CICS startup fails. If you insert the label into the standard system label area (see job ADDLAB below), then the CICS startup will run successfully. The ASSGN statement is the only one which needs to be placed in CICS startup job.

FCT entries are now online

Description: The FCT entries are migrated to CSD and now online, they should now be defined via RDO. To migrate the old FCT entry in ELAFCT, assemble DFHFCTSP (with inserted ELAFCT) and change the job SKCSDFIL (library 59), simply add the line 'MIGRATE TABLE(DFHFCTSP)' at the end of the DFHCSDUP part after the ADD GROUP statement (see the following sample for 3380 or CKD devices below).

Run the job and the table will be updated and migrated to the new format.

Job ADDLAB:

```
* $$ JOB JNM=ADDLAB,CLASS=0,DISP=L,PRI=3
// JOB ADDLAB
// OPTION STDLABEL=ADD
// DLBL ELACFIL,'ELA110.ELACFIL',,VSAM,CAT=IJSYSCT
// DLBL EZEPRIN,'USER.EZEPRINT.FILE',0,SD
// EXTENT SYS025,SYSWK3,1,0,5910,75
/*
/&
* $$ EOJ
```

Part of job SKCSDFIL

```
// EXEC DFHCSDUP,SIZE=600K      UPDATE CICS CSD VSAM FILE
DELETE GROUP(ELAGRP)
* $$ SLI MEM=ELAGRP.A,S=(PRD2.DBASE)
* $$ SLI MEM=ELAGENU.A,S=(PRD2.DBASE)
ADD GROUP(ELAGRP) LIST(VSELIST)
MIGRATE TABLE(DFHFCTSP)
```

7.0 Installation Instructions

There is no further information for VSE/ESA 2.6.2

8.0 VSE/ESA 2.6.2 Install Logic

There is no further information for VSE/ESA 2.6.2

9.0 Reader's Comments

Program Directory for VSE/Enterprise Systems Architecture Version 2 Release 6.2

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE						
very satisfied	<=====>				very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

Did you order this product as an independent product or as part of a package?

- Independent
- Package

If this product was ordered as part of a package, what type of package was ordered?

- CustomPac
 - FunctionPac
 - SystemPac
- System Delivery Offering (SDO)
- Other - Please specify type:

Is this the first time your organization has installed this product?

- Yes
- No

Were the people who did the installation experienced with the installation of these products?

- Yes
- No

If yes, how many years?

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the VSE/Enterprise Systems Architecture Development group):

Kristel Flade
IBM Deutschland Entwicklung GmbH
S/390 Software Development
Dept.4357, Bldg.71032-06
Schoenaicher Strasse 220
71032 Boeblingen
Germany



Program Number: 5690-VSE 2201
2202
2199
2402,2601
2403,2602
2404,2599
2087
2088
2089

Printed in U.S.A.

G110-9765-02

