



Program Directory for
IBM DB2 Universal Database Server for OS/390 and z/OS
Query Management Facility
National Language Version

Version 07 Release 01, Modification Level 00

Program Number 5675-DB2

for Use with
OS/390 and z/OS

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Note!

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

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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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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 QMF for OS/390 and z/OS National Language Version. This publication refers to QMF for OS/390 and z/OS National Language Version as QMF NLV. 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 QMF NLV.
- 3.0, “Program Support” on page 7 describes the IBM support available for QMF NLV.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) incorporated into QMF NLV.
- 5.0, “Installation Requirements and Considerations” on page 10 identifies the resources and considerations for installing and using QMF NLV.
- 6.0, “Installation Instructions” on page 28 provides detailed installation instructions for QMF NLV. It also describes the procedures for activating the functions of QMF NLV, or refers to appropriate publications.

Before installing QMF NLV, read 3.2, “Preventive Service Planning” on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing QMF NLV with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

If you are installing QMF NLV using the MVS Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), a softcopy program directory is provided on the CBPDO tape which is identical to the printed copy shipped with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for QMF NLV are included on the CBPDO tape.

1.1 QMF NLV Description

This document refers to the National Language Version (translated version) of the IBM QMF for OS/390 and z/OS Version 07 product.

IBM Query Management Facility is a tightly integrated, powerful, and reliable tool that performs query and reporting for IBM's DB2 Relational Database Management System family. It offers an easy-to-learn, interactive interface. Users with little or no data processing experience can easily retrieve, create, update, insert, or delete data that is stored in DB2.

QMF offers a total solution that includes accessing large amounts of data and sharing central repositories of queries and enterprise reports. Additionally, it allows you to implement tightly-controlled, distributed, or client/server solutions. You also can use QMF to publish reports to the World Wide Web that you can view with your favorite web browser.

The Base English **QMF for OS/390 and z/OS National Language Version** product is a fully functional QMF Version 07 product.

1.2 QMF NLV FMIDs

QMF NLV consists of the following FMIDs:

- JSQ7751
- JSQ7753
- JSQ7755
- JSQ7756
- JSQ7757
- JSQ7758
- JSQ7759
- JSQ775A
- JSQ775B
- JSQ775C
- JSQ775D
- JSQ775E
- JSQ775F
- JSQ775G

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for QMF NLV is 5675-DB2.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature code, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature codes, and are not required for the product to function.

The program announcement material describes the features supported by QMF NLV. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 28 for more information about how to install the program.

Figure 1 describes the tape or cartridge.

Figure 1 (Page 1 of 2). Basic Material: Program Tape

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 Tape	6103	1 of 2	QMF for OS/390 ENP	SQ77NL
	6100	"	QMF for OS/390 CHS	"
	6130	"	QMF for OS/390 DAN	"
	6082	"	QMF for OS/390 FRA	"
	6094	"	QMF for OS/390 DEU	"
	6097	"	QMF for OS/390 ITA	"
	6079	"	QMF for OS/390 JPN	"
	6088	"	QMF for OS/390 KOR	"
	6091	"	QMF for OS/390 PTB	"
	6073	"	QMF for OS/390 ESP	"
	6085	"	QMF for OS/390 SVE	"
	6076	"	QMF for OS/390 FRS	"
	6070	"	QMF for OS/390 DES	"
	6145	"	QMF for OS/390 FRC	"
	5949	2 of 2	QMF for OS/390 base	SQ7710

Figure 1 (Page 2 of 2). Basic Material: Program Tape

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
3480 Tape	6101	1 of 2	QMF for OS/390 ENP	SQ77NL
	6098	"	QMF for OS/390 CHS	"
	6128	"	QMF for OS/390 DAN	"
	6080	"	QMF for OS/390 FRA	"
	6092	"	QMF for OS/390 DEU	"
	6095	"	QMF for OS/390 ITA	"
	6077	"	QMF for OS/390 JPN	"
	6086	"	QMF for OS/390 KOR	"
	6089	"	QMF for OS/390 PTB	"
	6071	"	QMF for OS/390 ESP	"
	6083	"	QMF for OS/390 SVE	"
	6074	"	QMF for OS/390 FRS	"
	6068	"	QMF for OS/390 DES	"
	6143	"	QMF for OS/390 FRC	"
5950	2 of 2	QMF for OS/390 base	SQ7710	
4 mm Cartridge	6102	1 of 2	QMF for OS/390 ENP	SQ77NL
	6099	"	QMF for OS/390 CHS	"
	6129	"	QMF for OS/390 DAN	"
	6081	"	QMF for OS/390 FRA	"
	6093	"	QMF for OS/390 DEU	"
	6096	"	QMF for OS/390 ITA	"
	6078	"	QMF for OS/390 JPN	"
	6087	"	QMF for OS/390 KOR	"
	6090	"	QMF for OS/390 PTB	"
	6072	"	QMF for OS/390 ESP	"
	6084	"	QMF for OS/390 SVE	"
	6075	"	QMF for OS/390 FRS	"
	6069	"	QMF for OS/390 DES	"
	6144	"	QMF for OS/390 FRC	"
6010	2 of 2	QMF for OS/390 base	SQ7710	

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for QMF NLV.

2.3 Program Publications

The following sections identify the basic and optional publications for QMF NLV.

2.3.1 Basic Program Publications

Figure 2 on page 5 identifies the basic unlicensed program publications for QMF NLV. One copy of each of these publications is included when you order the basic materials for QMF NLV. For additional copies, contact your IBM representative.

<i>Figure 2. Basic Material: Unlicensed Publications - USA English Base</i>	
Publication Title	Form Number
Installing and Managing QMF on OS/390	GC27-0719
QMF Messages and Codes	GC27-0717

<i>Figure 3. Basic Material: Unlicensed Publications - Japan</i>	
Publication Title	Form Number
Installing and Managing QMF on OS/390	GC88-8621
QMF Messages and Codes	GC88-8623

<i>Figure 4. Basic Material: Unlicensed Publications - Korea</i>	
Publication Title	Form Number
QMF Messages and Codes	GA30-1050

2.3.2 Optional Program Publications

No optional publications are provided for QMF NLV.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for QMF NLV.

2.5 Publications Useful During Installation

<i>Figure 5 (Page 1 of 2). Publications Useful During Installation</i>	
Publication Title	Form Number
<i>OS/390 SMP/E User's Guide</i>	SC28-1740

Figure 5 (Page 2 of 2). Publications Useful During Installation

Publication Title	Form Number
<i>OS/390 SMP/E Reference</i>	SC28-1806
<i>OS/390 SMP/E Messages and Codes</i>	SC28-1738

3.0 Program Support

This section describes the IBM support available for QMF NLV.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing QMF NLV, you should review the current Preventive Service Planning (PSP) information. If you obtained QMF NLV as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained QMF NLV on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

PSP Buckets are identified by UPGRADEs, which specify product levels, and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for QMF NLV are:

Figure 6. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
DB2710	JSQ7751	QMF for OS/390 and z/OS V7 Uppercase English
DB2710	JSQ7753	QMF for OS/390 and z/OS V7 Simplified Chinese
DB2710	JSQ7755	QMF for OS/390 and z/OS V7 Danish
DB2710	JSQ7756	QMF for OS/390 and z/OS V7 French
DB2710	JSQ7757	QMF for OS/390 and z/OS V7 German
DB2710	JSQ7758	QMF for OS/390 and z/OS V7 Italian
DB2710	JSQ7759	QMF for OS/390 and z/OS V7 Japanese
DB2710	JSQ775A	QMF for OS/390 and z/OS V7 Korean
DB2710	JSQ775B	QMF for OS/390 and z/OS V7 Brazilian Portuguese
DB2710	JSQ775C	QMF for OS/390 and z/OS V7 Spanish
DB2710	JSQ775D	QMF for OS/390 and z/OS V7 Swedish
DB2710	JSQ775E	QMF for OS/390 and z/OS V7 Swiss French
DB2710	JSQ775F	QMF for OS/390 and z/OS V7 Swiss German
DB2710	JSQ775G	QMF for OS/390 and z/OS V7 Canadian French

3.3 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.

Figure 7 on page 8 identifies the component IDs (COMPID) for QMF NLV.

<i>Figure 7. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
JSQ7751	566872101	QMF/390 U/C ENGLISH	751
JSQ7753	566872101	QMF/390 CHINESE SIMP	753
JSQ7755	566872101	QMF/390 DANISH	755
JSQ7756	566872101	QMF/390 FRENCH	756
JSQ7757	566872101	QMF/390 GERMAN	757
JSQ7758	566872101	QMF/390 ITALIAN	758
JSQ7759	566872101	QMF/390 JAPANESE	759
JSQ775A	566872101	QMF/390 KOREAN	75A
JSQ775B	566872101	QMF/390 BRAZIL PORT	75B
JSQ775C	566872101	QMF/390 SPANISH	75C
JSQ775D	566872101	QMF/390 SWEDISH	75D
JSQ775E	566872101	QMF/390 SWISS FRENCH	75E
JSQ775F	566872101	QMF/390 SWISS GERMAN	75F
JSQ775G	566872101	QMF/390 CAN FRENCH	75G

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF NLV. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

No APARs have been incorporated into QMF NLV.

4.2 Service Level Information

No PTFs against this release of QMF NLV have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating QMF NLV. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install QMF NLV.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 8. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5647-A01	OS/390 SMP/E Version 2 Release 7 or higher

5.2 Target System Requirements

This section describes the environment of the target system required to install and use QMF NLV.

QMF NLV installs in the DBS (P115) SREL.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requirements

5.2.2.1 Mandatory Requisites: A mandatory requisite is defined as a product that is required without exception; this product either **will not install** or **will not function** unless this requisite is met. This includes products that are specified as REQs or PREs.

Figure 9. Mandatory Requisites

Program Number	Product Name and Minimum VRM/Service Level
5675-DB2	QMF for OS/390 - Version 7

Important Note

QMF for OS/390 - SYSMOD HSQ7710 must be SMP/E ACCEPTed to install QMF NLV.

5.2.2.2 Functional Requisites: A functional requisite is defined as a product that is **not** required for the successful installation of this product or for the basic function of the product, but **is** needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

QMF NLV has no functional requisites.

5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.

QMF NLV has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must *not* be installed on the same system as this product.

QMF NLV has no negative requisites.

5.2.3 DASD Storage Requirements

QMF NLV libraries can reside on 3380 or 3390 DASD.

Figure 10 on page 12 lists the total space required for each type of library.

<i>Figure 10. Total DASD Space Required by QMF NLV</i>	
Library Type	Total Space Required
Target	2005 3390 blocks per language (includes 6 blocks for SDSQLOAD)
Distribution	281 3390 tracks per language (includes 1 block for ADSQOBJ)

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.

2. Abbreviations used for the data set type are:

- U** Unique data set, allocated by this product and used only by this product. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.
- S** Shared data set, allocated by this product and used by this product and others. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
- E** Existing shared data set, used by this product and others. This data set is NOT allocated by this product. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information on the names and sizes of the required data sets, please refer to 6.1.5, "Allocate SMP/E Target and Distribution Libraries" on page 30.

3. All target and distribution libraries listed have the following attributes:

- The default dataset name may be changed
- The default block size of the dataset may be changed

- The dataset may be merged with another dataset that has equivalent characteristics
- The dataset may be either a PDS or a PDSE.

4. All target libraries listed have the following attributes:

- The dataset may be SMS managed
- It is not required for the dataset to be SMS managed
- The dataset may be in the LPA
- It is not required for the dataset to be in the LPA
- The dataset may be in the LNKLST
- It is not required for the dataset to be APF authorized
- It is not required for the dataset to reside on the IPL volume
- The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS

The following figures describe the target and distribution libraries required to install QMF NLV. The storage requirements of QMF NLV must be added to the storage required by other programs having data in the same library.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

In this document the default QMF library names, PDS member names, JCL sample job names, etc. are referred to with *n* in the name. For each language installation, it is necessary to replace the letter *n* with the appropriate language letter identifier assigned to the National Language being installed. Refer to the table below for the values assigned to each individual National Language provided with QMF Version 07.

Figure 11 (Page 1 of 2). QMF National Language Identifiers

Language	Language Identifier	F MID	Q.PROFILES TRANSLATION
Uppercase English	U	JSQ7751	UPPERCASE
Simplified Chinese	R	JSQ7753	S-CHINESE
Danish	Q	JSQ7755	DANSK
French	F	JSQ7756	FRANCAIS
German	D	JSQ7757	DEUTSCH
Italian	I	JSQ7758	ITALIANO
Japanese	K	JSQ7759	NIHONGO
Korean	H	JSQ775A	HANGEUL
Brazilian Portuguese	P	JSQ775B	PORTUGUES
Spanish	S	JSQ775C	ESPAÑOL
Swedish	V	JSQ775D	SVENSKA
Swiss French	Y	JSQ775E	FRANCAIS (SUISSE)

Figure 11 (Page 2 of 2). QMF National Language Identifiers

Language	Language Identifier	F MID	Q.PROFILES TRANSLATION
Swiss German	Z	JSQ775F	DEUTSCH (SCHWEIZ)
Canadian French	C	JSQ775G	FRANCAIS CANADIEN

Figure 12. Storage Requirements for QMF NLV Uppercase English Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPU	Sample	any	U	PDS	FB	80	201	20
SDSQPLBU	Panel	any	U	PDS	FB	80	18	15
SDSQCLTU	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBU	Message	any	U	PDS	FB	80	2	5
SDSQEXCU	EXEC	any	U	PDS	FB	80	14	10
SDSQUSRU	Sample	any	U	PDS	FB	80	14	5
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 13. Storage Requirements for QMF NLV Simplified Chinese Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPR	Sample	any	U	PDS	FB	80	201	20
SDSQPLBR	Panel	any	U	PDS	FB	80	18	15
SDSQCLTR	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBR	Message	any	U	PDS	FB	80	2	5
SDSQEXCR	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRR	Sample	any	U	PDS	FB	80	31	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 14. Storage Requirements for QMF NLV Danish Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPQ	Sample	any	U	PDS	FB	80	201	20
SDSQPLBQ	Panel	any	U	PDS	FB	80	18	15
SDSQCLTQ	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBQ	Message	any	U	PDS	FB	80	2	5
SDSQEXCQ	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRQ	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 15. Storage Requirements for QMF NLV French Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPF	Sample	any	U	PDS	FB	80	201	20
SDSQPLBF	Panel	any	U	PDS	FB	80	18	15
SDSQCLTF	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBF	Message	any	U	PDS	FB	80	2	5
SDSQEXCF	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRF	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 16 (Page 1 of 2). Storage Requirements for QMF NLV German Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPD	Sample	any	U	PDS	FB	80	201	20
SDSQPLBD	Panel	any	U	PDS	FB	80	18	15
SDSQCLTD	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBD	Message	any	U	PDS	FB	80	2	5

Figure 16 (Page 2 of 2). Storage Requirements for QMF NLV German Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQEXCD	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRD	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 17. Storage Requirements for QMF NLV Italian Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPI	Sample	any	U	PDS	FB	80	201	20
SDSQPLBI	Panel	any	U	PDS	FB	80	18	15
SDSQCLTI	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBI	Message	any	U	PDS	FB	80	2	5
SDSQEXCI	EXEC	any	U	PDS	FB	80	14	5
SDSQUSR1	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 18. Storage Requirements for QMF NLV Japanese Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPK	Sample	any	U	PDS	FB	80	201	20
SDSQPLBK	Panel	any	U	PDS	FB	80	18	15
SDSQCLTK	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBK	Message	any	U	PDS	FB	80	2	5
SDSQEXCK	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRK	Sample	any	U	PDS	FB	80	14	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 19. Storage Requirements for QMF NLV Korean Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPH	Sample	any	U	PDS	FB	80	614	20
SDSQPLBH	Panel	any	U	PDS	FB	80	18	15
SDSQCLTH	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBH	Message	any	U	PDS	FB	80	2	5
SDSQEXCH	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRH	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 20. Storage Requirements for QMF NLV Brazilian Portuguese Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPP	Sample	any	U	PDS	FB	80	201	20
SDSQPLBP	Panel	any	U	PDS	FB	80	18	15
SDSQCLTP	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBP	Message	any	U	PDS	FB	80	2	5
SDSQEXCP	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRP	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 21 (Page 1 of 2). Storage Requirements for QMF NLV Spanish Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPS	Sample	any	U	PDS	FB	80	201	20
SDSQPLBS	Panel	any	U	PDS	FB	80	18	15
SDSQCLTS	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBS	Message	any	U	PDS	FB	80	2	5

Figure 21 (Page 2 of 2). Storage Requirements for QMF NLV Spanish Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQEXCS	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRS	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 22. Storage Requirements for QMF NLV Swedish Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPV	Sample	any	U	PDS	FB	80	614	20
SDSQPLBV	Panel	any	U	PDS	FB	80	18	15
SDSQCLTV	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBV	Message	any	U	PDS	FB	80	2	5
SDSQEXCV	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRV	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 23. Storage Requirements for QMF NLV Swiss French Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPY	Sample	any	U	PDS	FB	80	201	20
SDSQPLBY	Panel	any	U	PDS	FB	80	18	15
SDSQCLTY	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBY	Message	any	U	PDS	FB	80	2	5
SDSQEXCY	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRY	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 24. Storage Requirements for QMF NLV Swiss German Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPZ	Sample	any	U	PDS	FB	80	201	20
SDSQPLBZ	Panel	any	U	PDS	FB	80	18	15
SDSQCLTZ	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBZ	Message	any	U	PDS	FB	80	2	5
SDSQEXCZ	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRZ	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 25. Storage Requirements for QMF NLV Canadian French Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SDSQSAPC	Sample	any	U	PDS	FB	80	201	20
SDSQPLBC	Panel	any	U	PDS	FB	80	18	15
SDSQCLTC	CLIST	any	U	PDS	FB	80	14	10
SDSQMLBC	Message	any	U	PDS	FB	80	2	5
SDSQEXCC	EXEC	any	U	PDS	FB	80	14	5
SDSQUSRC	Sample	any	U	PDS	FB	80	30	10
SDSQLOAD	LMOD	any	E	PDS	U	0	6	1

Figure 26. Storage Requirements for QMF NLV Uppercase English Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACU	U	PDS	FB	80	918	25
ADSQPMSU	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 27. Storage Requirements for QMF NLV Simplified Chinese Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACR	U	PDS	FB	80	918	25
ADSQPMSR	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 28. Storage Requirements for QMF NLV Danish Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACQ	U	PDS	FB	80	918	25
ADSQPMSQ	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 29. Storage Requirements for QMF NLV French Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACF	U	PDS	FB	80	918	25
ADSQPMSF	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 30. Storage Requirements for QMF NLV German Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACD	U	PDS	FB	80	918	25
ADSQPMSD	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 31. Storage Requirements for QMF NLV Italian Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACI	U	PDS	FB	80	918	25
ADSQPMSI	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 32. Storage Requirements for QMF NLV Japanese Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACK	U	PDS	FB	80	918	325
ADSQPMSK	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 33. Storage Requirements for QMF NLV Korean Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACH	U	PDS	FB	80	918	25
ADSQPMSH	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 34. Storage Requirements for QMF NLV Brazilian Portuguese Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACP	U	PDS	FB	80	918	25
ADSQPMSP	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 35. Storage Requirements for QMF NLV Spanish Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACS	U	PDS	FB	80	918	25
ADSQPMSS	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 36. Storage Requirements for QMF NLV Swedish Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACV	U	PDS	FB	80	918	25
ADSQPMSV	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 37. Storage Requirements for QMF NLV Swiss French Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACY	U	PDS	FB	80	918	25
ADSQPMSY	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

Figure 38. Storage Requirements for QMF NLV Swiss German Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ADSQMACZ	U	PDS	FB	80	918	25
ADSQPMSZ	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

<i>Figure 39. Storage Requirements for QMF NLV Canadian French Distribution Libraries</i>						
Library DDNAME	T Y P E	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks	
ADSQMACC	U	PDS	FB	80	918	25
ADSQPMSC	U	PDS	FB	80	93	15
ADSQOBJ	E	PDS	U	0	7	1

The following figures list data sets that are not used by SMP/E, but are required for QMF NLV to execute.

<i>Figure 40. Storage Requirements for QMF NLV Uppercase English Non-SMP/E Data Sets</i>						
Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPU	U	PDS	FB	400	6	10
DSQPVARU	U	NONE	V	32756	90	-
DSQPNLU	U	VSAM	VS	32756	135	-

<i>Figure 41. Storage Requirements for QMF NLV Simplified Chinese Non-SMP/E Data Sets</i>						
Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPR	U	PDS	FB	400	6	10
DSQPVARR	U	SEQ	V	32756	90	-
DSQPNLR	U	VSAM	VS	32756	135	-

<i>Figure 42 (Page 1 of 2). Storage Requirements for QMF NLV Danish Non-SMP/E Data Sets</i>						
Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPQ	U	PDS	FB	400	2	10
DSQPVARQ	U	SEQ	V	32756	70	-

Figure 42 (Page 2 of 2). Storage Requirements for QMF NLV Danish Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQPNLQ	U	VSAM	VS	32756	135	-

Figure 43. Storage Requirements for QMF NLV French Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPF	U	PDS	FB	400	2	10
DSQPVARF	U	SEQ	V	32756	70	-
DSQPNLF	U	VSAM	VS	32756	135	-

Figure 44. Storage Requirements for QMF NLV German Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPD	U	PDS	FB	400	2	10
DSQPWARD	U	SEQ	V	32756	70	-
DSQPNLD	U	VSAM	VS	32756	135	-

Figure 45. Storage Requirements for QMF NLV Italian Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPI	U	PDS	FB	400	2	10
DSQPVARI	U	SEQ	V	32756	70	-
DSQPNLI	U	VSAM	VS	32756	135	-

Figure 46. Storage Requirements for QMF NLV Japanese Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPK	U	PDS	FB	400	2	10
DSQPVARK	U	SEQ	V	32756	70	-
DSQPNLK	U	VSAM	VS	32756	135	-

Figure 47. Storage Requirements for QMF NLV Korean Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPH	U	PDS	FB	400	2	10
DSQPVARH	U	SEQ	V	32756	70	-
DSQPNLH	U	VSAM	VS	32756	135	-

Figure 48. Storage Requirements for QMF NLV Brazilian Portuguese Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPP	U	PDS	FB	400	2	10
DSQPVARP	U	SEQ	V	32756	70	-
DSQPNLP	U	VSAM	VS	32756	135	-

Figure 49. Storage Requirements for QMF NLV Spanish Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPS	U	PDS	FB	400	2	10
DSQPVARs	U	SEQ	V	32756	70	-
DSQPNLS	U	VSAM	VS	32756	135	-

Figure 50. Storage Requirements for QMF NLV Swedish Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPV	U	PDS	FB	400	2	10
DSQPVARV	U	SEQ	V	32756	70	-
DSQPNLV	U	VSAM	VS	32756	135	-

Figure 51. Storage Requirements for QMF NLV Swiss French Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPY	U	PDS	FB	400	2	10
DSQPVARV	U	SEQ	V	32756	70	-
DSQPNLY	U	VSAM	VS	32756	135	-

Figure 52. Storage Requirements for QMF NLV Swiss German Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPZ	U	PDS	FB	400	2	10
DSQPVARZ	U	SEQ	V	32756	70	-
DSQPNLZ	U	VSAM	VS	32756	135	-

Figure 53. Storage Requirements for QMF NLV Canadian French Non-SMP/E Data Sets

Data Set Name	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSQMAPC	U	PDS	FB	400	2	10
DSQPVARC	U	SEQ	V	32756	70	-
DSQPNLC	U	VSAM	VS	32756	135	-

5.3 FMIDs Deleted

Installing QMF NLV may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install QMF NLV into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

QMF NLV has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of QMF NLV.

Please note the following:

- QMF NLV **must** be installed into the same CSI where your QMF for OS/390 and z/OS is located. QMF for OS/390 and z/OS must be SMP/E ACCEPTed before installing QMF NLV
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing QMF NLV

6.1.1 SMP/E Considerations for Installing QMF NLV

This release of QMF NLV is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 54. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

Figure 54. SMP/E Options Subentry Values

SUB-ENTRY	Value	Comment
DSSPACE	(210,210,520)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 Unload the Sample JCL from the Product Tape

The following sample installation jobs are provided on the distribution tape to help you install QMF NLV:

Figure 55. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
DSQ1NJRC	RECEIVE	Sample RECEIVE job	IBM.JSQ7751.F3
DSQ1NJAL	ALLOCATE	Sample job to allocate Target and Distribution libraries Distribution libraries	IBM.JSQ7751.F3
DSQ1NDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.JSQ7751.F3
DSQ1NJAP	APPLY	Sample APPLY job	IBM.JSQ7751.F3
DSQ1NJAC	ACCEPT	Sample ACCEPT job	IBM.JSQ7751.F3

You may copy the jobs from the tape by submitting the job below. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN DD DSN=IBM.JSQ7751.F3,
// UNIT=tunit,VOL=SER=SQ77NL,
// LABEL=(4,SL),DISP=(OLD,KEEP)
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=dunit,
// DCB=*.STEP1.IN,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=IN,OUTDD=OUT
SELECT MEMBER=(DSQ1NJRC,DSQ1NJAL,DSQ1NDEF,DSQ1NJAP,DSQ1NJAC)
/*
```

where **tunit** is the unit value matching the product tape or cartridge **jcl-library-name** is the name of the data set where the sample jobs will reside, **dasdvol** is the volume serial of the DASD device where the data set will reside, and **dunit** is the DASD unit type of the volume.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID JSQ7751, and then copying the jobs from data set **hlq.IBM.JSQ7751.F3** to a work data set for editing and submission. Note: "hlq" is the high-level qualifier specified in the DSPREFIX value in the SMPTLIB DDDEF or the OPTIONS entry of the global zone.

6.1.4 Perform SMP/E RECEIVE

Edit and submit sample job DSQ1NJRC to perform the SMP/E RECEIVE for QMF NLV. Consult the instructions in the sample job for more information.

NOTE: if you obtained QMF NLV as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the QMF NLV FMIDs as well as any service, HOLDDATA, or preventive

service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly

6.1.5 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job DSQ1NJAL to allocate the SMP/E target and distribution libraries for QMF NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly

6.1.6 Create DDDEF Entries

Edit and submit sample job DSQ1NDEF to create DDDEF entries for the SMP/E target and distribution libraries for QMF NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly

6.1.7 Perform SMP/E APPLY

Edit and submit sample job DSQ1NJAP to perform an SMP/E APPLY CHECK for QMF NLV. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from APPLY CHECK: You will get a condition code of 0 if the job runs correctly.

Expected Return Codes and Messages from APPLY: You will get a condition code of 0 if the job runs correctly.

6.1.8 Perform SMP/E ACCEPT

Edit and submit sample job DSQ1NJAC to perform an SMP/E ACCEPT CHECK for QMF NLV. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E accept all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messagesfor ACCEPT CHECK: You will get a condition code of 0 if the job runs correctly

Expected Return Codes and Messagesfor ACCEPT: You will get a condition code of 0 if the job runs correctly

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

6.2 Activating QMF NLV

The publication *Installing and Managing QMF on OS/390, GC27-0179* contains the step-by-step procedures to activate the functions of QMF NLV.

Reader's Comments

Program Directory for QMF for OS/390 and z/OS National Language Version (Version 07.01.00)

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Necessity of all installation tasks	1	2	3	4	5	N
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6082 6073 6130 6145 6070
6095 6074 6089 6083 6092
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6097 6076 6091 6083 6094
6086 6101 6077 6098
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