**Note!**

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

---

**ISO 9001 Certification**

This product was developed using an ISO 9001 certified quality system.

Certification has been awarded by Bureau Veritas Quality International (BVQI) (Certification No. BVQI - 92086/A).

BVQI is a world leader in quality certification and is currently recognized by more than 20 accreditation bodies.
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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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- IBM®
- CBPDO
- IBM
- CBPDO
- IBM
- OS/390®
- IBM
- CBPDO
- IBM
- OS/390®

- AIX
- AS/400
- BookManager
- C/370
- CBIPDO
- CICS
- DATABASE 2
- DB2
- Extended Services
- GDDM
- IBM
- IBMLink
- MVS
- MVS/ESA
- MVS/SP
- MVS/XA
- NetView
- OS/400
- Operating System/400
- ProductPac
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- RMF
- S/390
- SMP/E
- SP

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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 IBM Tivoli Decision Support for OS/390. This publication refers to IBM Tivoli Decision Support for OS/390 as IBM Tivoli Decision Support for OS/390.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for IBM Tivoli Decision Support for OS/390.
- 3.0, “Program Support” on page 8 describes the IBM support available for IBM Tivoli Decision Support for OS/390.
- 4.0, “Program and Service Level Information” on page 11 lists the APARs (program level) and PTFs (service level) incorporated into IBM Tivoli Decision Support for OS/390.
- 5.0, “Installation Requirements and Considerations” on page 14 identifies the resources and all for installing and using IBM Tivoli Decision Support for OS/390.
- 6.0, “Installation Instructions” on page 22 provides detailed installation instructions for IBM Tivoli Decision Support for OS/390. It also describes the procedures for activating the functions of IBM Tivoli Decision Support for OS/390, or refers to appropriate publications.

Before installing IBM Tivoli Decision Support for OS/390, read the CBPDO Memo To Users and the CBPDO Memo To Users Extension that were supplied with this program softcopy as well as this Program Directory and then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 8 tells you how to find any updates to the information and procedures in this Program Directory.

IBM Tivoli Decision Support for OS/390 is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided softcopy on the CBPDO tape which is identical to the hard copy provided with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for IBM Tivoli Decision Support for OS/390 are included on the CBPDO tape.

Do not use this Program Directory if you are installing IBM Tivoli Decision Support for OS/390 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.
1.1 IBM Tivoli Decision Support for OS/390 Description

IBM Tivoli Decision Support for OS/390 (formerly named PR) is an IBM licensed program that collects detailed system management data from all parts of your system, organizes it, stores it in a DB2 relational database, and presents it to you in graphical or tabular reports.

This program directory should be used when installing the English language version of the IBM Tivoli Decision Support for OS/390 base function together with one (or more) additional IBM Tivoli Decision Support for OS/390 features. These additional features are:

- IBM Tivoli Decision Support for OS/390 System Performance (SP)
- IBM Tivoli Decision Support for OS/390 IMS Performance (IMS)
- IBM Tivoli Decision Support for OS/390 CICS Performance (CICS)
- IBM Tivoli Decision Support for OS/390 Network Performance (NP)
- IBM Tivoli Decision Support for OS/390 Distributed Systems Performance (WS)
- IBM Tivoli Decision Support for OS/390 AS/400 System Performance (SP400)
- IBM Tivoli Decision Support for OS/390 Accounting (ACNT)

The abbreviations in the list above are used only in this document and in jobs related to the IBM Tivoli Decision Support for OS/390 installation.

1.2 IBM Tivoli Decision Support for OS/390 FMIDs

IBM Tivoli Decision Support for OS/390 consists of the following FMIDs:

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</table>
2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for IBM Tivoli Decision Support for OS/390 is 5695-101 and its feature numbers are 5361, 5339, 5862, 5587, 6020, 5594, 6033, 5653, 6027, 5597, 6002, 5802, 6087, 5367, 5395.

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 IBM Tivoli Decision Support for OS/390. 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 magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, “Installation Instructions” on page 22 for more information about how to install the program.

Information about the physical tape for the Basic Machine-Readable Materials for IBM Tivoli Decision Support for OS/390 can be found in the CBPDO Memo To Users Extension. Figure 1 describes the file content.

Figure 1 describes the program file content for IBM Tivoli Decision Support for OS/390. You can refer to the CBPDO Memo To Users Extension to see where the files reside on the tape.

Notes:

1. The data set attributes in this table should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.
Figure 1. Program File Content

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2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IBM Tivoli Decision Support for OS/390.
2.3 Program Publications

The following sections identify the basic and optional publications for IBM Tivoli Decision Support for OS/390.

2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IBM Tivoli Decision Support for OS/390. One copy of IBM Tivoli Decision Support for OS/390 Administration Guide, IBM Tivoli Decision Support for OS/390 Guide to the Reporting Dialog, and IBM Tivoli Decision Support for OS/390 User's Guide for the Viewer is included when you order the basic materials for IBM Tivoli Decision Support for OS/390. For additional copies, contact your IBM representative.

<table>
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<th>Publication Title</th>
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<tr>
<td>IBM Tivoli Decision Support for OS/390 Licensed Program Specifications</td>
<td>GH19-6868-07</td>
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<td>IBM Tivoli Decision Support for OS/390 Administration Guide</td>
<td>SH19-6816-07</td>
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<tr>
<td>IBM Tivoli Decision Support for OS/390 Language Guide and Reference</td>
<td>SH19-6817-07</td>
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<td>IBM Tivoli Decision Support for OS/390 Guide to the Reporting Dialog</td>
<td>SH19-6842-07</td>
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<tr>
<td>IBM Tivoli Decision Support for OS/390 Messages and Problem Determination</td>
<td>SH19-6902-08</td>
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<td>IBM Tivoli Decision Support for OS/390 User's Guide for the Viewer</td>
<td>SH19-4517-03</td>
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2.3.2 Optional Program Publications

Figure 3 identifies the optional unlicensed program publications for IBM Tivoli Decision Support for OS/390. One copy of IBM Tivoli Decision Support for OS/390 Administration Guide, IBM Tivoli Decision Support for OS/390 Guide to the Reporting Dialog and IBM Tivoli Decision Support for OS/390 User's Guide for the Viewer included when you order the optional materials for IBM Tivoli Decision Support for OS/390. For additional copies, contact your IBM representative.

<table>
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<th>Publication Title</th>
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<td>System Performance Feature Reference Vol.I</td>
<td>SH19-6819-07</td>
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<td>System Performance Feature Reference Vol.II</td>
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<td>IMS Performance Feature Guide and Reference</td>
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<td>CICS Performance Feature Guide and Reference</td>
<td>SH19-6820-06</td>
<td>6020/5594</td>
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</table>
The IBM Tivoli Decision Support for OS/390 Program Directory, along with other Tivoli Program Directories can be found by following links to the product from the support web site listed below:


### 2.4 Program Source Materials

Customers with access to View Program Listings (VPL), such as through S/390 SoftwareXcel, can use the VPL facility for online viewing of available program listings. Those customers without access to VPL can contact their IBM representative.

### 2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of IBM Tivoli Decision Support for OS/390. To order copies, contact your IBM representative or visit the IBM Publications Center on the world wide web at:

<table>
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<tr>
<th>Publication Title</th>
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<td>IBM SMP/E for z/OS and OS/390 User's Guide</td>
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<td>SA22-7771</td>
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<td>IBM SMP/E for z/OS and OS/390 Reference</td>
<td>SA22-7772</td>
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<tr>
<td>IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis</td>
<td>GA22-7770</td>
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</tbody>
</table>
3.0 Program Support

This section describes the IBM support available for IBM Tivoli Decision Support for OS/390.

3.1 Program Services

Contact your IBM and/or Tivoli representative for specific information about available program services. You can find information in the "IBM Software Support Guide" at the following Web site: http://www-3.ibm.com/software/sysmgmt/products/support/.

The handbook provides information about how to contact Customer Support, depending on the severity of your problem, and the following information:

- Registration and eligibility
- Telephone numbers and e-mail addresses, depending on the country in which you are located
- What information you should gather before contact support

3.2 Preventive Service Planning

Before installing IBM Tivoli Decision Support for OS/390, you should review the current Preventive Service Planning (PSP) information. If you obtained IBM Tivoli Decision Support for OS/390 as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If the CBPDO for IBM Tivoli Decision Support for OS/390 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".

For access to RETAIN, visit http://www.ibmlink.ibm.com/ on the Internet.

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 IBM Tivoli Decision Support for OS/390 are:

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<th>Description</th>
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<td>Distributed Systems Performance</td>
</tr>
</tbody>
</table>
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 6 identifies the component IDs (COMPID) for IBM Tivoli Decision Support for OS/390.

<table>
<thead>
<tr>
<th>FMID</th>
<th>COMPID</th>
<th>Component Name</th>
<th>RETAIN Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLJ0601</td>
<td>569510100</td>
<td>Base Function</td>
<td>601</td>
</tr>
<tr>
<td>JLJ06A0</td>
<td>569510100</td>
<td>System Performance</td>
<td>6A0</td>
</tr>
<tr>
<td>JLJ06A1</td>
<td>569510100</td>
<td>IMS Performance</td>
<td>6A1</td>
</tr>
<tr>
<td>JLJ06A2</td>
<td>569510100</td>
<td>CICS Performance</td>
<td>6A2</td>
</tr>
<tr>
<td>JLJ06A3</td>
<td>569510100</td>
<td>Network Performance</td>
<td>6A3</td>
</tr>
<tr>
<td>JLJ06A4</td>
<td>569510100</td>
<td>Distributed Systems Performance</td>
<td>6A4</td>
</tr>
<tr>
<td>JLJ06A5</td>
<td>569510100</td>
<td>AS/400 System Performance</td>
<td>6A5</td>
</tr>
<tr>
<td>JLJ06A9</td>
<td>569510100</td>
<td>Accounting Feature for the Host</td>
<td>6A9</td>
</tr>
<tr>
<td>JLJ06B2</td>
<td>569510100</td>
<td>Base Function (English)</td>
<td>6B2</td>
</tr>
<tr>
<td>JLJ06C2</td>
<td>569510100</td>
<td>System Performance (English)</td>
<td>6C2</td>
</tr>
<tr>
<td>JLJ06D2</td>
<td>569510100</td>
<td>IMS Performance (English)</td>
<td>6D2</td>
</tr>
<tr>
<td>JLJ06E2</td>
<td>569510100</td>
<td>CICS Performance (English)</td>
<td>6E2</td>
</tr>
</tbody>
</table>

Figure 5 (Page 2 of 2). PSP Upgrade and Subset ID

<table>
<thead>
<tr>
<th>UPGRADE</th>
<th>SUBSET</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JLJ06A5</td>
<td></td>
<td>AS/400 System Performance</td>
</tr>
<tr>
<td>JLJ06A9</td>
<td></td>
<td>Accounting Feature for the Host</td>
</tr>
<tr>
<td>JLJ06B2</td>
<td></td>
<td>Base Function (English)</td>
</tr>
<tr>
<td>JLJ06C2</td>
<td></td>
<td>System Performance (English)</td>
</tr>
<tr>
<td>JLJ06D2</td>
<td></td>
<td>IMS Performance (English)</td>
</tr>
<tr>
<td>JLJ06E2</td>
<td></td>
<td>CICS Performance (English)</td>
</tr>
<tr>
<td>JLJ06F2</td>
<td></td>
<td>Network Performance (English)</td>
</tr>
<tr>
<td>JLJ06G2</td>
<td></td>
<td>Distributed Systems Performance (English)</td>
</tr>
<tr>
<td>JLJ06H2</td>
<td></td>
<td>AS/400 System Performance (English)</td>
</tr>
<tr>
<td>JLJ06L2</td>
<td></td>
<td>Accounting Feature for the Host (English)</td>
</tr>
</tbody>
</table>
### Figure 6 (Page 2 of 2). Component IDs

<table>
<thead>
<tr>
<th>FMID</th>
<th>COMPID</th>
<th>Component Name</th>
<th>RETAIN Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>JLJ06F2</td>
<td>569510100</td>
<td>Network Performance (English)</td>
<td>6F2</td>
</tr>
<tr>
<td>JLJ06G2</td>
<td>569510100</td>
<td>Distributed Systems Performance (English)</td>
<td>6G2</td>
</tr>
<tr>
<td>JLJ06H2</td>
<td>569510100</td>
<td>AS/400 System Performance (English)</td>
<td>6H2</td>
</tr>
<tr>
<td>JLJ06L2</td>
<td>569510100</td>
<td>Accounting Feature for the Host (English)</td>
<td>6L2</td>
</tr>
</tbody>
</table>
4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of IBM Tivoli Decision Support for OS/390. 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

The following APAR fixes against previous releases of IBM Tivoli Decision Support for OS/390 have been incorporated into this release. They are listed by FMID.

- FMID HLJ0601

<table>
<thead>
<tr>
<th>FMID</th>
<th>APAR Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>PQ53582</td>
<td>PQ59662</td>
</tr>
<tr>
<td>PQ53806</td>
<td>PQ59668</td>
</tr>
<tr>
<td>PQ55673</td>
<td>PQ59713</td>
</tr>
<tr>
<td>PQ55694</td>
<td>PQ60032</td>
</tr>
<tr>
<td>PQ55699</td>
<td>PQ60033</td>
</tr>
<tr>
<td>PQ55850</td>
<td>PQ60507</td>
</tr>
<tr>
<td>PQ56676</td>
<td>PQ60579</td>
</tr>
<tr>
<td>PQ56873</td>
<td>PQ60616</td>
</tr>
<tr>
<td>PQ56960</td>
<td>PQ60958</td>
</tr>
<tr>
<td>PQ57657</td>
<td>PQ61198</td>
</tr>
<tr>
<td>PQ58757</td>
<td>PQ61494</td>
</tr>
<tr>
<td>PQ59039</td>
<td>PQ61941</td>
</tr>
<tr>
<td>PQ59043</td>
<td>PQ62176</td>
</tr>
<tr>
<td>PQ59521</td>
<td>PQ62411</td>
</tr>
</tbody>
</table>

- FMID JLJ06A0

<table>
<thead>
<tr>
<th>FMID</th>
<th>APAR Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>PQ55522</td>
<td>PQ62117</td>
</tr>
<tr>
<td>PQ56676</td>
<td>PQ62460</td>
</tr>
<tr>
<td>PQ58960</td>
<td>PQ63138</td>
</tr>
<tr>
<td>PQ59049</td>
<td>PQ63801</td>
</tr>
<tr>
<td>PQ60033</td>
<td>PQ65580</td>
</tr>
<tr>
<td>PQ60480</td>
<td>PQ66230</td>
</tr>
</tbody>
</table>

© Copyright IBM Corp. 1993, 2003
• FMID JLJ06A2
  PQ56676  PQ60032
  PQ59521  PQ65552

• FMID JLJ06A3
  PQ68543

• FMID JLJ06A4
  PQ56676  PQ60428  PQ65894  PQ70293
  PQ56774  PQ63139  PQ68921  PQ73395

• FMID JLJ06A5
  PQ56676  PQ68701
  PQ63884  PQ70806

• FMID JLJ06A9
  NONE

• FMID JLJ06B2
  PQ56676  PQ67046
  PQ58458  PQ68543

• FMID JLJ06C2
  PQ56676  PQ59049  PQ60248  PQ63138
  PQ58340  PQ67779
• FMID JLJ06D2
  PQ56676
  PQ55858
  PQ68693

• FMID JLJ06E2
  PQ56676

• FMID JLJ06F2
  PQ56676
  PQ68543

• FMID JLJ06G2
  PQ56676

• FMID JLJ06H2
  NONE

• FMID JLJ06L2
  NONE

### 4.2 Service Level Information

No PTFs against this release of IBM Tivoli Decision Support for OS/390 have been incorporated into the product tape.
5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IBM Tivoli Decision Support for OS/390. 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 IBM Tivoli Decision Support for OS/390.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any one of the following:</td>
<td></td>
</tr>
<tr>
<td>5647-A01</td>
<td>OS/390 SMP/E Version 2 Release 6 with PTF UR51068</td>
</tr>
<tr>
<td>5647-A01</td>
<td>OS/390 SMP/E Version 2 Release 7</td>
</tr>
<tr>
<td>5694-A01</td>
<td>z/OS Version 1 Release 1</td>
</tr>
</tbody>
</table>
5.2 Target System Requirements

This section describes the environment of the target system required to install and use IBM Tivoli Decision Support for OS/390.

IBM Tivoli Decision Support for OS/390 installs in the z/OS (Z038) 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.

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-G44</td>
<td>IBM SMP/E for z/OS and OS/390 Version 3 Release 1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5645-DB2</td>
<td>IBM DATABASE 2 (DB2) Version 6</td>
</tr>
<tr>
<td>5647-A01</td>
<td>OS/390 V2.10 w JES2 or JES3</td>
</tr>
<tr>
<td>5694-A01</td>
<td>z/OS 1.1</td>
</tr>
<tr>
<td>Program Number</td>
<td>Product Name and Minimum VRM/Service Level</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>5706-254</td>
<td>Query Management Facility (QMF) 3.1.1</td>
</tr>
<tr>
<td>5695-167</td>
<td>Graphical Data Display Manager (GDDM) 3.1.1</td>
</tr>
<tr>
<td>5668-812</td>
<td>GDDM-PGF Version 2</td>
</tr>
<tr>
<td>5724-B90</td>
<td>DB2 HPU (High Performance Unload) 2.1</td>
</tr>
<tr>
<td>5648-142</td>
<td>Tivoli Service Desk for OS/390</td>
</tr>
<tr>
<td>5695-046</td>
<td>BookManager READ/MVS Release 3</td>
</tr>
<tr>
<td>5722-SS1</td>
<td>OS/400 5.1</td>
</tr>
<tr>
<td>5685-108</td>
<td>NetView FTP 2.1</td>
</tr>
<tr>
<td>5733-196</td>
<td>NetView FTP/400 V3</td>
</tr>
<tr>
<td>5722-PT1</td>
<td>IBM Performance Tools</td>
</tr>
<tr>
<td></td>
<td>Windows 98** or Windows NT** Version 4.0 SP6, Windows 2000</td>
</tr>
</tbody>
</table>

Any one of the following:

- 5765-C34 AIX 4.3 Distributed Systems
- HP-UX** 11-i Distributed Systems
- Sun** Solaris 2.7 Distributed Systems
- Linux Suse** 7.1 (Kernel 2.4.0) Linux Performances
- Linux RedHat** 7.1 (Kernel 2.4.2) Linux Performances
- TurboLinux** 6.5 (Kernel 2.2.18) Linux Performances
- Linux SUSE 7.0 OS390 (Kernel 2.2.16) Linux Performances

Any one of the following:

- 5765-C34 AIX 4.3 with patches for JDK 1.3.0 Decision Support Viewer
- Sun** Solaris 2.7 Decision Support Viewer
- Windows 98, Window NT** Version 4.0 SP6, Windows 2000 Decision Support Viewer
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.

IBM Tivoli Decision Support for OS/390 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.

IBM Tivoli Decision Support for OS/390 has no negative requisites.

5.2.3 DASD Storage Requirements

IBM Tivoli Decision Support for OS/390 libraries can reside on 3390 DASD.

You need at least 170 cylinders of 3390 DASD available on the volume specified by the relative temporary libraries (SMPTLIB) for the base function of IBM Tivoli Decision Support for OS/390. You also need approximately 5 cylinders of 3390 DASD for SMPTLIB for each additional IBM Tivoli Decision Support for OS/390 feature being installed.

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

<table>
<thead>
<tr>
<th>Library Type</th>
<th>Base</th>
<th>SP</th>
<th>IMS</th>
<th>CICS</th>
<th>NP</th>
<th>WS</th>
<th>SP400</th>
<th>ACTN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>3500</td>
<td>180</td>
<td>70</td>
<td>120</td>
<td>140</td>
<td>130</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>Distr.</td>
<td>3600</td>
<td>180</td>
<td>70</td>
<td>120</td>
<td>140</td>
<td>130</td>
<td>50</td>
<td>10</td>
</tr>
</tbody>
</table>

Notes:

1. IBM and Tivoli recommend 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. 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. 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. 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 6.1.7, "Allocate SMP/E Target and Distribution Libraries and Paths" on page 27.

3. All target and distribution libraries listed have the following attributes:
   - The default name of the data set may be changed
   - The default block size of the data set may be changed
   - The data set may be merged with another data set that has equivalent characteristics
   - The data set may be either a PDS or a PDSE

4. All target libraries listed have the following attributes:
   - The data set may be SMS managed
   - It is not required for the data set to be SMS managed
   - It is not required for the data set 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.

5. All target libraries listed which contain load modules have the following attributes:
   - The data set may be in the LPA
   - It is not required for the data set to be in the LPA
   - The data set may be in the LNKLST
   - It is not required for the data set to be APF authorized

The following figures describe the target and distribution libraries and HFS paths required to install IBM Tivoli Decision Support for OS/390. The storage requirements of IBM Tivoli Decision Support for OS/390 must be added to the storage required by other programs having data in the same library or path.

**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.
**Figure 11. Storage Requirements for IBM Tivoli Decision Support for OS/390 Target Libraries**

<table>
<thead>
<tr>
<th>Library DDNAME</th>
<th>Member Type</th>
<th>Target Volume</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDRLLOAD</td>
<td>LMOD</td>
<td>ANY U PDS</td>
<td>0</td>
<td>155</td>
</tr>
<tr>
<td>SDRLCNTL</td>
<td>CLIST</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLEXEC</td>
<td>EXEC</td>
<td>ANY U PDS</td>
<td>128</td>
<td>250</td>
</tr>
<tr>
<td>SDRLDEFS</td>
<td>Data</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLSKEI</td>
<td>Skeleton</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLWS</td>
<td>Data</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLA400</td>
<td>Data</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLMENU</td>
<td>Message</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLTENU</td>
<td>Table</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLRENU</td>
<td>Data</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLFENU</td>
<td>Parameter</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
<tr>
<td>SDRLVENU</td>
<td>Data</td>
<td>ANY U PDS</td>
<td>80</td>
<td>10</td>
</tr>
</tbody>
</table>

**Figure 12. Storage Requirements for IBM Tivoli Decision Support for OS/390 Distribution Libraries**

<table>
<thead>
<tr>
<th>Library DDNAME</th>
<th>Target Volume</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADRLOAD</td>
<td>U PDS</td>
<td>0</td>
<td>200</td>
</tr>
<tr>
<td>ADRDIST</td>
<td>U PDS</td>
<td>80</td>
<td>365</td>
</tr>
<tr>
<td>ADRDEFS</td>
<td>U PDS</td>
<td>80</td>
<td>990</td>
</tr>
<tr>
<td>ADRWS</td>
<td>U PDS</td>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>ARLA400</td>
<td>U PDS</td>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>ARLDENU</td>
<td>U PDS</td>
<td>80</td>
<td>195</td>
</tr>
<tr>
<td>ARLRENU</td>
<td>U PDS</td>
<td>80</td>
<td>195</td>
</tr>
<tr>
<td>ARLFENU</td>
<td>U PDS</td>
<td>80</td>
<td>195</td>
</tr>
<tr>
<td>ARLVENU</td>
<td>U PDS</td>
<td>80</td>
<td>2430</td>
</tr>
</tbody>
</table>
The following figures list data sets that are not used by SMP/E, but are required for IBM Tivoli Decision Support for OS/390 to execute.

### 5.3 FMIDs Deleted

Installing IBM Tivoli Decision Support for OS/390 may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS. See Appendix A, “IBM Tivoli Decision Support for OS/390 Install Logic” on page 31 for more information on how to do this.

If you do not wish to delete these FMIDs at this time, you must install IBM Tivoli Decision Support for OS/390 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

#### 5.4.1 Programming Considerations

The system as shipped and built uses approximately 470 cylinders of 3390 DASD storage (or the equivalent) for the IBM Tivoli Decision Support for OS/390 target and distribution libraries for the base function of IBM Tivoli Decision Support for OS/390. For each additional IBM Tivoli Decision Support for OS/390 feature approximately 8 additional cylinders are required. There are additional DASD space requirements for SMPTLIB. See 5.2.3, “DASD Storage Requirements” on page 17.
5.4.2 Special Considerations

- When you are installing the base function (FMID HLJ0601) of IBM Tivoli Decision Support for OS/390, then you must check what DCB attributes your system is using for SYSPROC/SYSEXEC. The exec library of IBM Tivoli Decision Support for OS/390 is supplied with DCB attributes of FB/80/8800. If your SYSPROC/SYSEXEC DCB attributes are different, then you must change the DCB attributes of the SDRLEXEC DD statement in the allocation job DRLJAALE (see 6.1.7, “Allocate SMP/E Target and Distribution Libraries and Paths” on page 27) according to the attributes for your SYSPROC/SYSEXEC.

- If you intend to use C/370* Library Version 2 Release 1 (5688-188) to write your own exits to the IBM Tivoli Decision Support for OS/390 Log Collector, then you must ensure that PTF UN37741 (for APAR PN35668) is installed for C/370.

5.4.3 Migration Considerations

If you are migrating from an earlier modification level of IBM Tivoli Decision Support for OS/390, you should perform some migration actions. These migration actions should be performed when you have successfully completed SMP/E APPLY and SMP/E ACCEPT of IBM Tivoli Decision Support for OS/390 and the IBM Tivoli Decision Support for OS/390 functions that you are using. These actions are described under “Migrating IBM Tivoli Decision Support for OS/390 base and components” in the IBM Tivoli Decision Support for OS/390 Administration Guide, SH19-6816-07.
6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM Tivoli Decision Support for OS/390.

Please note the following:

- If you want to install IBM Tivoli Decision Support for OS/390 into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at the following url: http://www-1.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230

- 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.

Libraries used by installation

This program directory describes the installation of the IBM Tivoli Decision Support for OS/390 base function and one (or more) additional IBM Tivoli Decision Support for OS/390 features. These additional features are:

- System Performance (SP)
- IMS Performance (IMS)
- CICS Performance (CICS)
- Network Performance (NP)
- Distributed Systems Performance (WS)
- AS/400 System Performance (SP400)
- Accounting (ACNT)

Each of these features will install elements in one or several target and distribution libraries. Figure 14 on page 23 and Figure 15 on page 23 describe which libraries are used by which feature.
6.1 Installing IBM Tivoli Decision Support for OS/390

6.1.1 SMP/E Considerations for Installing IBM Tivoli Decision Support for OS/390

This release of IBM Tivoli Decision Support for OS/390 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 16 on page 24. 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.

<table>
<thead>
<tr>
<th>SUB-ENTRY</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSSPACE</td>
<td>(200,200,500)</td>
<td>Default space allocation for each SMPTLIB data set</td>
</tr>
<tr>
<td>PEMAX</td>
<td>SMP/E Default</td>
<td>IBM recommends using the SMP/E default for PEMAX.</td>
</tr>
</tbody>
</table>

6.1.3 SMP/E CALLLIBS Processing

IBM Tivoli Decision Support for OS/390 does not use any CALLLIBS function.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IBM Tivoli Decision Support for OS/390:

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Job Type</th>
<th>Description</th>
<th>RELFILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRLJRCVE</td>
<td>RECEIVE</td>
<td>Sample RECEIVE job</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJARCE</td>
<td>RECEIVE</td>
<td>Sample RECEIVE job for the Accounting feature for the Host</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJAALE</td>
<td>ALLOCATE</td>
<td>Sample job to allocate target and distribution libraries</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJDDDE</td>
<td>DDDEF</td>
<td>Sample job to define SMP/E DDDEFs</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJAPPE</td>
<td>APPLY</td>
<td>Sample APPLY job</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJAAPPE</td>
<td>APPLY</td>
<td>Sample APPLY job for the Accounting feature for the Host</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJACCE</td>
<td>ACCEPT</td>
<td>Sample ACCEPT job</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
<tr>
<td>DRLJAACCE</td>
<td>ACCEPT</td>
<td>Sample ACCEPT job for the Accounting feature for the Host</td>
<td>IBM.JLJ06B2.F1</td>
</tr>
</tbody>
</table>
If you have already installed a Japanese (Kanji) version of IBM Tivoli Decision Support for OS/390 Version 1 Release 6, Modification Level 0, you have to modify the provided sample jobs in order to remove the language independent statements, since it is assumed that you have already run them during Japanese installation. Please refer to each sample job for more detailed information.

You may copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//TAPEIN DD DSN=IBM.JLJ06B2.F1,UNIT=tunit,VOL=SER=LJ0601,
/// LABEL=(5,SL),
/// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JLJ06B2.F1,UNIT=SYSALLDA,DISP=SHR,
/// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,
/// DISP=(NEW,CATLG,DELETE),
/// VOL=SER=dasdvol,UNIT=SYSALLDA,
/// SPACE=(8800,(30,10,10))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(I,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
S M=DRLJAAL
S M=DRLJDDE
S M=DRLJRCE
S M=DRLJAP
S M=DRLJAC
S M=DRLJAR
S M=DRLJAA
S M=DRLJA
/*
In the sample above, update the statements as noted below:

If using TAPEIN:

- *tunit* is the unit value matching the product tape
- Refer to the documentation provided by CBPDO to see where IBM.fmid.Fy is on the tape.

If using FILEIN

- *filevol* is the volume serial of the DASD device where the downloaded files reside.

OUT

- *jcl-library-name* is the name of the output data set where the sample jobs will be stored
- *dasdvol* is the volume serial of the DASD device where the output data set will reside

SYSIN

- *xxxxIN* is either TAPEIN or FILEIN depending on your input DD statement.
```
You can also access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 17 on page 24 to find the appropriate relfile data set.

6.1.5 Perform SMP/E RECEIVE

Perform an SMP/E RECEIVE for IBM Tivoli Decision Support for OS/390.

Notes: The Accounting feature for the Host installation is achieved running sample jobs, other from the ones needed for the Base Function and the other Features installation.

Having obtained IBM Tivoli Decision Support for OS/390 as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the IBM Tivoli Decision Support for OS/390 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.

You can also choose to edit and submit sample job DRLJRCVE to perform the SMP/E RECEIVE for IBM Tivoli Decision Support for OS/390. Consult the instructions in the sample job for more information.

This sample is intended for the English language version of IBM Tivoli Decision Support for OS/390. The sample job contains steps with SMP/E RECEIVE commands for these features:

- RCVENG1 - Base Function
- RCVENG2 - System Performance (SP)
- RCVENG3 - IMS Performance (IMS)
- RCVENG4 - CICS Performance (CICS)
- RCVENG5 - Network Performance (NP)
- RCVENG6 - Distributed Systems Performance (WS)
- RCVENG7 - AS/400 System Performance (SP400)

Expected Return Codes and Messages:
RC=00

6.1.6 Perform SMP/E RECEIVE for the Accounting feature for the Host

Edit and submit sample job DRLJARCE to perform the SMP/E RECEIVE for the IBM Tivoli Decision Support for OS/390 Accounting feature for the Host.

This sample is intended for the English language version of IBM Tivoli Decision Support for OS/390. The sample job contains a SMP/E RECEIVE step for this feature:

- RCVENG8 - Accounting feature for the Host (ACNT)

Use the steps appropriate to your installation. Consult the instructions in the sample job for details.

Note: If you obtained IBM Tivoli Decision Support for OS/390 as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the IBM Tivoli Decision Support for
OS/390 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:**
RC=00

### 6.1.7 Allocate SMP/E Target and Distribution Libraries and Paths

Edit and submit sample job **DRLJAALE** to allocate the SMP/E target and distribution libraries for IBM Tivoli Decision Support for OS/390. Consult the instructions in the sample job for more information.

When you are installing the base function (FMID HLJ0601) of IBM Tivoli Decision Support for OS/390, you must check what DCB attributes your system is using for SYSPROC/SYSEXEC. The exec library of IBM Tivoli Decision Support for OS/390 is supplied with DCB attributes of FB/80/0 (utilizing system-determined blocksize). If your SYSPROC/SYSEXEC DCB attributes are different, then you must change the DCB attributes of the SDRLEXEC DD statement in the allocation job DRLJAALE according to the attributes for your SYSPROC/SYSEXEC.

**Note:** The **LOCAL** libraries, allocated by **DRLJAALE**, will be filled during the Performance Reporter customization.

Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:**
RC=00

### 6.1.8 Create DDDEF Entries

Edit and submit sample job **DRLJDDDE** to create DDDEF entries for the SMP/E target and distribution libraries for IBM Tivoli Decision Support for OS/390. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:**
RC=00

### 6.1.9 Perform SMP/E APPLY

Edit and submit sample **DRLJAPPE** to perform an SMP/E APPLY CHECK for IBM Tivoli Decision Support for OS/390. 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 the HOLDSYS in the BYPASS operand in the APPLY statement 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:**
RC=00

**Expected Return Codes and Messages from APPLY:**
RC=04

The APPLY step may end with \( RC=04 \) depending on the service level of your system. The binder may instead issue several warning messages like IEW2646W and IEW2651W. This causes SMP/E issue message GIM23903W or GIM23913W. This is also normal and can be ignored.

### 6.1.10 Perform SMP/E APPLY for the Accounting feature for the Host

Edit and submit sample job **DRLJAAPE** to perform an SMP/E APPLY CHECK for the IBM Tivoli Decision Support for OS/390 Accounting feature for the Host. 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).

After you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and the HOLDSYS in the BYPASS operand in the APPLY statement 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:**
RC=00

**Expected Return Codes and Messages from APPLY:**
RC=00

### 6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job **DRLJACCE** to perform an SMP/E ACCEPT CHECK for IBM Tivoli Decision Support for OS/390. 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 the HOLDSYS in the BYPASS parameter in the ACCEPT statement 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 Messages from ACCEPT CHECK:**
RC=00

**Expected Return Codes and Messages from ACCEPT:**
RC=00

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.

### 6.1.12 Perform SMP/E ACCEPT for the Accounting feature for the Host

Edit and submit sample job **DRLJAACE** to perform an SMP/E ACCEPT CHECK for the IBM Tivoli Decision Support for OS/390 Accounting feature for the Host. 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).

After you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and the HOLDSYS in the BYPASS operand in the APPLY statement and run the job again to perform the APPLY.

**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 Messages from ACCEPT CHECK:**
RC=00
6.2 Activating IBM Tivoli Decision Support for OS/390

Before you start to put the program into operational status, you should ensure that appropriate PTFs for IBM Tivoli Decision Support for OS/390 have been applied (see 5.4, “Special Considerations” on page 20).

Detailed steps to put the program into operational status are defined in the IBM Tivoli Decision Support for OS/390 Administration Guide, SH19-6816-07. When you put each function of IBM Tivoli Decision Support for OS/390 into operation, you also need:

- System Performance Feature Reference Volume I, SH19-6819-07
- System Performance Feature Reference Volume II, SH19-4494-04
- IMS Performance Feature Guide and Reference, SH19-6825-06
- CICS Performance Feature Guide and Reference, SH19-6820-06
- Network Performance Feature Installation and Administration, SH19-6901-07
- Distributed Systems Performance Feature Guide and Reference, SH19-4018-06
- AS/400 System Performance Feature Guide and Reference, SH19-4019-06
- Accounting Feature for the Host, SH19-4495-04
- Accounting Feature for the Workstation ENG, SH19-4516-03
- Accounting Feature for the Workstation, Simpl. Chinese, SB84-0060-03
- Accounting Feature for the Workstation, Brazilian/Portuguese, S517-6815-03
- Accounting Feature for the Workstation, Korean, SA30-0754-03
- Accounting Feature for the Workstation, Spanish, SH10-9246-03
Appendix A. IBM Tivoli Decision Support for OS/390 Install Logic

A.1 SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for IBM Tivoli Decision Support for OS/390 are contained in the SMPMCS file on the installation tape. The SMPMCS for each FMID in the product will be loaded to the SMPPTS data set, with a member name matching the FMID, when the FMID is SMP/E RECEIVED. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

A.2 SMP/E JCLIN

The JCLIN for IBM Tivoli Decision Support for OS/390 is contained in the RELFILEs on the installation tape. These files will be loaded to disk by SMP/E when the product is SMP/E RECEIVED. You may browse or print these files using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

The files containing JCLIN are:

FMID HLJ0601: 'high-level-qualifier'.HLJ0601.F1(HLJ0601)

Note: The high-level qualifier is the qualifier specified as the DSPREFIX in the SMP/E OPTIONS.
Contacting Customer Support

For support for this or any Tivoli product, you can contact Tivoli Customer Support in one of the following ways:

Submit a problem management record (PMR) electronically at IBMSERV/IBMLINK.


You can also review the IBM Software Support Guide, which is available on the Web site listed above. An End of Support Matrix is provided as well which will tell you when products you are using are nearing the end of support date for a particular version or release.

When you contact Tivoli Customer Support, be prepared to provide identification information for your company so that support personnel can readily assist you. Company identification information may also be needed to access various online services available on the Web site.

The support Web site offers extensive information, including a guide to support services (the IBM Software Support Guide); frequently asked questions (FAQs); and documentation for all Tivoli products, including Release Notes, Redbooks, and Whitepapers. The documentation for some product releases is available in both PDF and HTML formats. Translated documents are also available for some product releases.