
Hardware and software requirements

This document outlines the required hardware and software for VisualAge COBOL, the software you need for the components of VisualAge COBOL you choose to install, and the software you need for the products you want to operate with VisualAge COBOL.

- “Required hardware”
- “Required software”
- “Optional software” on page 3

Required hardware

This section provides hardware requirements for VisualAge COBOL for Windows NT, Version 3.0.4.

Processor

Pentium-based 100 MHz processor (minimum) or higher (recommended)

Memory

128 MB or higher

Hard drive space

- Basic installation: 400 MB
- Network server installation: 690 MB
- Shared installation: 10 MB
- Swap space: 40 MB

All hard drive space estimates are for the full product. You can reduce the space required by selectively installing components. InstallShield displays the amount of hard drive space required for the components that you select.

Adapter card

For host communications, you need a LAN adapter card supported by whichever operating system you use, Windows NT or Windows 2000.

RELATED REFERENCES

“Required software”
“Optional software” on page 3

Required software

This section provides the minimum software required for VisualAge COBOL for Windows NT, Version 3.0.4.

For remote edit-compile-debug

On the OS/390 host

- OS/390 Version 2 Release 6 or later, or z/OS, which includes the following required software:

- TCP/IP
- IBM HTTP Server (formerly known as Domino Go Webserver for OS/390), plus the appropriate PTF for APAR PQ29311
- For job monitor support, the PTF for JES APAR 0W41734
- For JES3 support, the PTF for APAR OW36022 and the PTF for APAR OW45210
- OS/390 Language Environment. Apply the PTFs for the following APARs as appropriate ("Language Environment note" on page 3): PQ088138, PQ05057, and PQ07402 for OS/390 V2R5. Remote debug of programs with DBCS data requires OS/390 Language Environment V2R9.
- IBM COBOL for OS/390 & VM Version 2 Release 1 (5648-A25) or later, Full Function Offering, which includes the following required software ("COBOL note"):
 - Debug Tool, plus the PTFs for APARs PQ30470 and PQ31829, which synchronize Debug Tool with IBM Distributed Debugger in VisualAge COBOL. In addition, the PTFs for APARs PQ43111 and PQ43112 are recommended; they bring the Debug Tool up to the current service level and provide support for remote debug of COBOL OS/390 applications running under UNIX System Services (USS).
 - The PTFs for the following APARs as appropriate: PQ21350, PQ36963, and PQ35436

On the workstation

- IBM VisualAge COBOL for Windows NT, Version 3.0.4 (5639-I44)
- One of the following:
 - Microsoft Windows NT** Version 4.0 (Service Pack 4 or later is required)
 - Microsoft Windows 2000** Professional
- Microsoft Loopback Adapter
- For the Information Center (online help):
 - One of the following:
 - Netscape Navigator for Windows 4.51 or later
 - Microsoft Internet Explorer 5.0 or later
 - For online books in PDF format, Adobe Acrobat Reader 4.0 or later
 - For a network installation, Microsoft Peer Web Services or equivalent Web server, on the network server

For local development

One of the following:

- Microsoft Windows NT Version 4.0 (Service Pack 4 or later required)
- Microsoft Windows 2000 Professional
- Microsoft Windows 98** (for application execution only)
- Microsoft Windows 95** (for application execution only)

Software requirement notes

The following notes are referenced from the software requirements material.

COBOL note

- Source code must be at the ANSI 85 level.

Language Environment note

- For debugging, applications must run under Language Environment. A steplib can be used to make Language Environment available at run time.

RELATED REFERENCES

“Optional software”

Optional software

This section lists requirements for components of VisualAge COBOL that you choose to install or use, such as the stored procedure manager. It also includes requirements for specific products that operate with VisualAge COBOL, such as MQSeries.

- “Stored procedure manager”
- “Data Assistant”
- “Remote data access” on page 4
- “LAN data access” on page 4
- “Local DB2 development” on page 5
- “Local CICS development” on page 6
- “MQSeries for Windows NT” on page 7
- “Oracle* **” on page 7
- “Sybase* **” on page 7

Stored procedure manager

On the OS/390 host

DB2 Universal Database for OS/390 Version 5 or Version 6

On the workstation

For accessing DB2 data on an OS/390 host:

- Run-time Client for DB2 Universal Database Version 6.1
 - Available from the Web
 - Included in DB2 server software
- One of the following:
 - DB2 Connect Enterprise Edition (included with DB2 Universal Developer’s Edition Version 6.1)
 - DB2 Connect Personal Edition (included with DB2 Personal Developer’s Edition Version 6.1)

Data Assistant

For Data Assistant, the following are required on the Windows NT workstation (“Packaging note” on page 5):

- SDK for DB2 Universal Database Version 5.2 or Version 6.1
 - Available from the Web
 - Included in DB2 server software
- One of the following:
 - DB2 Connect Enterprise Edition (included with DB2 Universal Developer’s Edition Version 5.2 or Version 6.1)
 - DB2 Connect Personal Edition (included with DB2 Personal Developer’s Edition Version 5.2 or Version 6.1)

Remote data access

On the OS/390 host

- For accessing IMS data on an OS/390 host, one of the following:
 - IMS/ESA Database Manager Version 6 Release 1 (5655-158), plus the PTF for APAR PQ07947 (for remote DL/I)
 - IMS/ESA Database Manager Version 5 Release 1 (5695-176) plus the PTF for APAR PQ07950 (for remote DL/I)
- For accessing DB2 data on an OS/390 host, DB2 Universal Database for OS/390 Version 5 or Version 6
- For accessing VSAM data on an OS/390 host, DFSMS/MVS (included with OS/390) plus the following APARs: OW20884, OW23571, and OW26104 (which apply to DFSMS/MVS Version 1.4.0 and below).

On the workstation

- For accessing DB2 data on an OS/390 host:
 - Run-time Client for DB2 Universal Database Version 5.2 or Version 6.1
 - Available from the Web
 - Included in DB2 server software
 - One of the following:
 - DB2 Connect Enterprise Edition (included with DB2 Universal Developer's Edition Version 5.2 or Version 6.1)
 - DB2 Connect Personal Edition (included with DB2 Personal Developer's Edition Version 5.2 or Version 6.1)
- For communications, one or more of the following, as appropriate:
 - IBM eNetwork Personal Communications Version 4.2 for Windows (for IMS and SdU, but not CICS)
 - IBM eNetwork Communications Server Version 5.0 for Windows NT (for IMS and SdU, but not CICS)
 - Microsoft SNA Server Version 3.0 or later (for CICS and SdU, but not IMS)

LAN data access

On the server

- For accessing DB2 data on a LAN, one of the following: ("Server requirements" on page 6)
 - DB2 Universal Database Enterprise - Extended Edition Version 5.2 or Version 6.1
 - DB2 Universal Database Enterprise Edition Version 5.2 or Version 6.1
 - DB2 Universal Database Workgroup Edition Version 5.2 or Version 6.1
- For developing and testing CICS applications, one of the following:
 - VisualAge CICS Enterprise Application Development Version 3.1, included with VisualAge COBOL for Windows NT, Version 3.0.4 (includes support for host data types)
 - TX Series Version 4.2 for Windows NT (which contains CICS Version 4.2 for Windows NT) (no support for host data types)
 - Transaction Server Version 4.0 for Windows NT (which includes CICS Version 4.0 for Windows NT) plus the PTF1 Refresh Level (no support for host data types)

On the workstation

- For developing applications that access DB2 data on a LAN, the following: (“DB2 note”)
 - Run-time Client for DB2 Universal Database Version 5.2 or Version 6.1:
 - Available from the Web
 - Included in DB2 server software
 - SDK for DB2 Universal Database corresponding to the Run-time Client level (“Packaging note”)
 - “Workstation DB2 requirements for LAN access” on page 6
- For developing applications that access CICS data on a LAN, one of the following:
 - VisualAge CICS Enterprise Application Development Version 3.1, which includes host data type support and is provided with VisualAge COBOL, Enterprise (recommended).
 - TX Series Version 4.2 for Windows NT (which contains CICS Version 4.2 for Windows NT) (no host data type support)
 - Transaction Server Version 4.0 for Windows NT (which includes CICS Version 4.0 for Windows NT) plus the PTF1 Refresh Level (no host data type support)

Local DB2 development

One of the following (“Packaging note”):

- DB2 Universal Developer’s Edition Version 5.2 or Version 6.1
- DB2 Personal Developer’s Edition Version 5.2 or Version 6.1

For more information, refer to one of the following Web addresses:

- Web information
- DB2 library
- CompuServe: GO IBMDB2
- Anonymous FTP site: [ftp.software.ibm.com/](ftp://ftp.software.ibm.com/)

Software requirement notes

The following notes are referenced from the software requirements material.

DB2 note

Before embarking, you are strongly urged to get more information from one or more of the following Web addresses.

- Web information
- DB2 library
- Installing and Configuring DB2 Clients book (with requirements)
- CompuServe: GO IBMDB2
- Anonymous FTP site: [ftp.software.ibm.com/](ftp://ftp.software.ibm.com/)

Packaging note

- DB2 Universal Developer’s Edition Version 6.1 is comprised of the SDK and the developer licenses and media for the following:
 - DB2 Universal Database Enterprise Edition
 - DB2 Universal Database Workgroup Edition
 - DB2 Universal Database Personal Edition
 - DB2 Connect Enterprise Edition

- DB2 Connect Personal Edition
- DB2 Personal Developer's Edition is comprised of the SDK plus the developer licenses and media for the following:
 - DB2 Universal Database Personal Edition
 - DB2 Connect Personal Edition
- DB2 Universal Database Enterprise Edition and DB2 Universal Database Enterprise - Extended Edition include the DB2 Connect Server Support component. All references to DB2 Connect Enterprise Edition also apply to the DB2 Connect Server Support component.

Server requirements

- For IPX/SPX, NetBIOS, or TCP/IP, the Windows NT base operating system provides support.
- For APPC, Microsoft SNA Server Version 3.0 (or later)

Workstation DB2 requirements for LAN access

IPX/SPX, NetBIOS, TCP/IP, APPC, or Named Pipes

- For IPX/SPX, NetBIOS, or TCP/IP, the Windows NT base operating system provides support.
- For APPC connectivity, one of the following:

- IBM eNetwork Communications Server Version 5.0 for Windows NT
- Microsoft SNA Server Version 3.0 (or later), on the LAN

You do not have to install Microsoft SNA Server on the same workstation as the Run-time Client for DB2 Universal Database Version 6.1.

Client requirements with DB2 Universal Developer's Edition or DB2 Personal Developer's Edition

- Products running on Windows NT support communications with MVS and OS/390, databases using SNA (APPC), TCP/IP, and MPTN (APPC over TCP/IP) protocols. These products can support all of these protocols at the same time.
- For direct connection to MVS and OS/390 databases via SNA (APPC), one of the following communications products is required:
 - IBM eNetwork Communications Server Version 5.0 (or later) for Windows NT
 - IBM eNetwork Personal Communications Version 4.2 (or later) for Windows NT
 - Microsoft SNA Server Version 3.0 (or later)
- For direct connections to host databases via TCP/IP, the Windows NT base operating system provides support.

Local CICS development

For developing and running production applications on Windows NT, one of the following:

- TX Series for Windows NT Version 4.2 (which contains CICS for Windows NT Version 4.2)
- Transaction Server for Windows NT Version 4.0 (which includes CICS for Windows NT Version 4.0) plus the PTF1 Refresh Level.

For developing and testing applications on Windows NT that are targeted for an OS/390 host:

- VisualAge CICS Enterprise Application Development (provided with VisualAge COBOL Version 3.0.4)

MQSeries for Windows NT

For developing applications with MQSeries for Windows NT, one of the following:

- MQSeries for Windows NT Version 5.1
- MQSeries Client for Windows NT (shipped with the above product)

Oracle* *

Oracle7 or Oracle 8

Sybase* *

Sybase System 10