FAQ 1-4M9MLY Banner Supported Compiler Versions

This note provides a list of the latest SunGard Higher Education supported versions for Banner Pro*C and Pro*COBOL. If you have a specific version which does not appear in this list, please open an SR on the Support Center.

Audit Trail:

Support for Sun ONE Studio 8 or higher	Sep-04-2007
Information regarding NetCOBOL and 32-bit/64-bit	Oct-16-2007
NetCOBOL Compiler is certified by NetCobol on Red Hat 4.0 32-bit. NetCOBOL Runtime supported on both Red Hat 32-bit and 64-bit	Oct-18-2007
Micro Focus 5.0 being tested	Dec-21-2007
Reference to FAQ 1-1JMMCF - Banner COBOL using Fujitsu NetCOBOL	Jul-15-2008
Micro Focus 5.0 is scheduled to be tested	Aug-13-2008
Information on NetCOBOL v7.3	Nov-10-2008
Gcc compiler only supported on Linux	Jan-19-2009
Testing of NetCOBOL 64-bit compiler feature being tested	Jan-19-2009
Pro*C and Pro*Cobol information moved to this FAQ from FAQ CMS-2554	Jan-23-2009
Red Hat 5.0 Not Yet Supported	Feb-02-2009
Red Hat 64-bit matrix updated	Feb-04-2009
Red Hat 64-bit compiles in 32-bit compatibility issue updated	Feb-05-2009
NetCOBOL v7.3 compiles on 64-bit testing in progress	Feb-10-2009
Updated HPUX Compilers from Metalink **Note** 43208.1	Apr-07-2009
Update Linux 64-bit NetCOBOL support	Apr-08-2009
Adding 11g o/s specific information	Apr-17-2009
Updated references to Red Hat 5.0 to read 5.3	Apr-28-2009
Added Linux Red Hat 32-bit support	Mar-01-2009
Added Micro Focus 4.0 11g information	Mar-05-2009
Removed references to Fujitsu since NetCOBOL now owned by Alchemy	May-18-2009
Added Suse Linux support	Jul-23-2009
Added Alpha VMS support	Sep-18-2009
Add support for Windows 32-bit and 11g	Nov-04-2009
Add AIX compiler 9.0	Dec-02-2009
Add the words (server Express) to Micro Focus compiler description	Dec-16-2009
Add plus symbol since Sun ONE Studio 8 or higher is supported with 10.2	Feb-04-2010
Added not that Banner 8 requires a C++ compiler	Mar-02-2010
Add support for Micro Focus 5	Mar-09-2010
Updating HPUX C++ compiler version to HP C++ A.06.0	Mar-21-2010
Change References to Red Hat 5.0 to read Red Hat 5	Apr-27-2010
Added IBM AIX 11g support	May-19-2010
Added VMS 8.3	Jun-25-2010

NetCOBOL[i] v7.2 is a 32-bit compiler.
It can be installed on a 64-bit server, but must use 32-bit libraries. With NetCOBOL v7.3, compiling COBOL on 64-bit platforms in 32-bit mode is also supported by SunGardHE. Note Banner Pro*Cobol does not take advantage of 64-bit memory addressing so there is no performance gain in compiling in 64-bit.

NetCOBOL v7.3 and above support Unicode.

NetCOBOL can be freely installed on any machine of the same O/S without a license for runtime execution. NetCOBOL supported platforms are Solaris, Linux, and Windows.
http://www.netcobol.com/products/index.htm

For Micro Focus[ii] 4.0+ fixpatches SP1/SP2 are required on Unix/Linux.
For Micro Focus 4.0+ version v4.0.006 or above is required on Windows.
Although Micro Focus 4.0+ is not certified by Oracle with 11g RDBMS, testing is on-going within SunGard.
Micro Focus 5.x is also scheduled to be tested. In the interim SunGardHE is providing provisional support. Based compatibility statements from Oracle and Micro Focus, Banner Pro*COBOL should compile and run without problems. If a problem does arise customers will need to work with SunGardHE support and also may be required to open an incident ticket with Micro Focus. Beta testing results from customers have reported no issues with Micro Focus 5.0 and WP4 (WrapPack4) and Micro Focus 5.1 with WP2. For the available platforms and Micro Focus version matrix, please see
http://supportline.microfocus.com/productreleaselevels/unix.asp

References to NetCOBOL in this document are signified by NC.
References to Micro Focus Cobol in this document are signified by MF.

Oracle has only certified[iii] gcc[iv] with Linux. Subsequently SunGardHE only supports gcc on Linux platforms.

Note for C compilers:
Banner 7 requires a C compiler but does not require a C++ compiler.
Banner 8 requires a C/C++ compiler.

OpenVMS	RDBMS	Cobol	C/C++
8.2/8.3 Alpha	10.2.x	COMPAQ 2.8	6.5-001
8.2-1/8.3 Itanium	10.2.x	HP 2.8	HP S7.1
	11.x	Not Certified by Oracle	

HP OpenVMS Itanium servers are also referred to as Integrity servers.
Banner 8.2+ is supported on Itanium and Alpha OpenVMS.
Banner 8.x will be the terminal release for OpenVMS.

HP Tru64 Unix	RDBMS	Cobol	C/C++
5.1b	10.2.x	MF2.2+	Compaq DTK 6.5-207
	11.x	Not Certified by Oracle	

HP-UX	RDBMS	Cobol	C/C++
PA-RISC 11.11/11.23	10.2.x 64bit	MF2.2+/4.0+	HP ANSI C B.11.11.12 & HP aC++ A.03.63
Itanium 11.23	10.2.x 64bit	MF4.0+	HP ANSI C A.06.00 & HP aC++ A.06.00
PA-RISC 11.23	11.x 64bit	MF5.0	HP ANSI C B.11.11.16
PA-RISC 11.31	11.x 64bit	MF5.0	HP ANSI C B.11.31.01
Itanium 11.23	11.x 64bit	MF5.0	HP ANSI C A.06.14
Itanium 11.31	11.x 64bit	MF5.0	HP ANSI C A.06.14

MF 5.0 is certified by Oracle on HPUX and RDBMS 10.2.0.4 and 11g.
MF 5.0 can be run in 64-bit compatibility.

IBM AIX	RDBMS	Cobol	C/C++
5L(5.2,5.3)	10.2.x 64bit	MF2.0.10+/4.0+	XL C/C++ 7.0.0.2/8.0/9.0
5L(5.2,5.3)	11.x 64bit	MF 4.0/4.1/5.0/5.1	XL C/C++ 8.0/9.0

MF 5.0 is certified by Oracle on AIX and RDBMS 10.2.0.4 and 11g.
MF 5.0 can be run in 64-bit compatibility.
Although MF 4.0+/4.1 is not certified by Oracle with 11g RDBMS,
MF 4.0/4.1 will be the SunGard supported Cobol compiler on 11g.

C/C++ Version 8.0 has been successfully tested with Banner 8 and ICU.
ICU does not yet list testing with version 9.0 or above but some customers have
installed v9.0 without issues.
http://source.icu-project.org/repos/icu/icu/tags/release-3-8-1/readme.html

Linux	RDBMS	Cobol	C/C++
Red Hat 3 4 AS/ES x86 Intel 32bit	10.2x	NC7.2/7.3 MF4.0	gcc 3.2.3-53
Suse 9/10/11 x86 Intel 32bit	10.2.0.4	NC7.3	gcc 3.2
Red Hat 4 AS/ES x86-64 AMD64/EM64T	10.2.0.4	NC7.2/7.3	gcc 3.4.6-10
Red Hat 5 AS/ES x86 Intel 32bit	10.2.0.4	NC7.3	gcc 3.4.6-10
Red Hat 4 AS/ES Itanium 64bit	10.2x	MF4.0	gcc 3.4.6-10
Red Hat 5 AS/ES x86-64 AMD64/EM64T	10.2.0.4	NC7.3	gcc 3.4.6-10
Suse 9/10/11 x86-64 AMD64/EM64T	10.2.0.4	NC7.3	gcc 3.4
Red Hat 4 AS/ES x86 Intel 32bit	11.x	NC7.3 MF5.0	gcc 3.4.6-10
Suse 9/10/11 x86 Intel 32bit	11.x	NC7.3	gcc 3.4
Red Hat 5 AS/ES x86 Intel 32bit	11.x	NC7.3 MF5.0	gcc 4.1.1-52
Red Hat 4 AS/ES x86-64 AMD64/EM64T	11.x	NC7.3 MF5.0	gcc 3.4.6-10
Suse 9/10/11 x86-64 AMD64/EM64T	11.x	NC7.3	gcc 3.4
Red Hat 5 AS/ES x86-64 AMD64/EM64T	11.x	NC7.3 MF5.0	gcc 4.1.1

NC 7.2/7.3 must be run in 32-bit compatibility mode using the procob32 executable.
NC 7.2 is a special version available for download on the SunGardHE Support site.

Oracle 10.2.0.4 media does not ship a procob32 executable.
See FAQ 1-5709KZ Oracle Linux 64-bit Pro*COBOL procob32 missing.

MF 5.0 is certified by Oracle on x86-64 AMD64/EM64T and RDBMS 10.2.0.4 and 11.x.
MF 5.0 can be run in 64-bit compatibility.

Sun Sparc Solaris	RDBMS	Cobol	C/C++
8/9	10.2x 64bit	MF2.2+/4.0+ NC9.0	SunONE Studio 8+
10	10.2x 64bit	MF2.2+/4.0+ NC10.0	SunONE Studio 8+
9	11.x	NC9.0 MF5.0	SunONE Studio 11
10	11.x	NC10.0 MF5.0	SunONE Studio 11

Sun ONE Studio 8 or higher is supported with 10.2
For 10.2.0.3, apply patch
SolarisSparc64-bit_RDBMS_10.2.0.3_patchPoorPerformance_DB_BLOCK_CHECKSUM_p6814520.zip
MF 5.0 is certified by Oracle on Solaris Sparc and RDBMS 11.x.
MF 5.0 can be run in 64-bit compatibility.

Sun Solaris Intel	RDBMS	Cobol	C/C++
10 X86-64	10.2x 64bit		SunONE 10,C/C++ 5.7
	11.x Not Certified by Oracle		

No Cobol compiler has yet been tested on Solaris Intel.
Oracle certifies Micro Focus 5.0 with RDBMS 10.2.0.4+

Windows Server	RDBMS	Cobol	C/C++
2000 (x86) 32bit	10.2x	MF3.0/3.1+ NC8.0	VisC++6.0
2003 (x86) 32bit	10.2x	MF4.0+ NC8.0	VisC++.NET 2002/2003
2003 (x86) 32bit	11.x	MF5.0 NC10.0	VisC++.NET 2005 SP1
2003 (x86-64) 64bit	11.x	MF5.0 NC10.0	VisC++.NET 2005 SP1

[i] Fujitsu NetCOBOL is now known as Alchemy NetCOBOL

[ii] References to Micro Focus refer to the Micro Focus Server product which is also known as Server Express. Also see FAQ CMS-11636 Micro Focus and NetCobol Developer And Runtime Licenses

[iii] Oracle tests its products with the version of a particular compiler available at the time the product is released. This compiler version, known as the 'Certified' version, is listed in the Installation and Configuration Guide for each platform. Unless there are exceptional circumstances, Oracle does not re-certify a released product to a later or earlier version of the specified compiler; however if that compiler version is supported with the OS level on which the product version is supported, then Oracle and SunGardHE will endeavor to resolve any issues arising from its use in conjunction with that product version

[iv] GNU Compiler Collection (gcc)