## UniSQL 가





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# 1

## Unix

OS 가 Unix UniSQL/X, UniCAS, UniTool (UniSQL/X, UniCAS, UniTool , UniTool Visual-SQL) Window " " "

Step		Action	
Step 1			. "unisql"
-		, "unisql"	(
	"/usr/unisql" )	"unisql"	
Step 2	CD	UniSQL/X	
	CD UniSQL/X		UniSQL <version>_<platform>-</platform></version>
	<os>.tar.Z</os>		SUN-SPARC
	, OS / Solaris7	UniSQL/X	6.0
	UniSQL6.0_SUN-SPARC-Solari	s7.tar.Z	"UniSOL* tor <b>7</b> "
	UNISQE		
	•		
	% cd \$HOME		
	% cat /cdrom/UniSOL*.tar.Z	uncompres	s   tar xvf -
		1	
		" · m	71 (
	"/ucr/unical/unical"	"unisqi" JL	
Otom 0			).
Step 3		UniCAS	LiniCAS aversions in latterms
	CD UNICAS		SI IN-
	SPARC OS 7 Sol	aris7 . T	CL 8.0
	UniCAS 4.6.2	,	"UniCAS4.6.2_SUN-SPARC-
	Solaris6_TCL8.0.tar.Z"		. UniSQL/X
	UniCAS	Appen	dix " "
	UniSQL/X	가	UniCAS
	CD UniCAS		
	"Unicas".tar.2"	•	
	& ad SHOME		
	* CU SHOME	l un comprod	
	o cat / curom/Unicas*.tar.z	uncompres	S   LAI XVI -
		"····· · · · · · · · · · · · · · · · ·	71 (
	"/usr/unisal/unicas"	Tunicas" 7	). 1\
Sten 4			



		CD	Ea	sy-Manage	Server	
	EMGR <version< th=""><th>n&gt;_<platform></platform></th><th>-<os>.tar.Z</os></th><th>, 0</th><th></th><th></th></version<>	n>_ <platform></platform>	- <os>.tar.Z</os>	, 0		
	SUN-S	PARC	, OS	가 Solaris	7	Easy-
	Manager Server	1.0		"EMGI	R1.0_SUN-S	SPARC-
	Solaris7.tar.Z"		. CI	D EMGF	R	
		"EMGR	*.tar.Z"		•	
	% cd \$HOME					
	& cat /cdrom/FMGE	)* tar 7   111	ncompress	tar vyf	_	
			licompress	CUI AVI		
			"emgr"		가	. (
	"/usr/unisc	l/emgr"	가	).		
Step 5		she	ell			
	∎ "csh"	" с	shrc"		가	
	_ 0011	, .0	onio		- 1	•
			_			
	setenv UNISQLX	\$HOME/unisq	1			
	setenv UNISQLX_MODE	client	_			
	setenv UNISQLX_DATABA	SES \$HOME/unis	sql			
	setenv UNISQLX_LANG	Ko_KR				
	setenv UNICAS	SHOME/unicas	5			
	Secenv UNITOOL_EMGR	SHOME/elligi				
	setenv LD LIBRARY PAT	'H \$UNISOLX/lib	:SUNICAS/lib:	SUNITOOL EMG	R/bin:/usr/l	ib
	setenv SHLIB_PATH	\$LD_LIBRARY_PA	ATH	· _		
	setenv LIBPATH	\$LD_LIBRARY_PA	TH			
	setenv PATH \$UNISQLX	/bin:\$UNISQLX/u	tilities:\$UNI	CAS/bin:\$UN	ITOOL_EMGR/b:	in:\$PATH
	∎ "sh"	" pr	ofile"		가	
		, .pr			- 1	•
	INTCOLY-CHOME (up i cal					
	export UNISOLX					
	UNISOLX MODE=client					
	export UNISOLX MODE					
	UNISOLX DATABASES=\$HC	ME/unisql				
	export UNISQLX_DATABA	SES				
	UNISQLX_LANG=Ko_KR					
	export UNISQLX_LANG					
	UNICAS=\$HOME/unicas					
	export UNICAS					
	UNITOOL_EMGR=\$HOME/em	ıgr				
	export UNITOOL_EMGR					

	LD_LIBRARY_PATH=\$UNISQLX/1 export LD_LIBRARY_PATH SHLIB_PATH=\$LD_LIBRARY_PAT export SHLIB_PATH LIBPATH=\$LD_LIBRARY_PATH export LIBPATH PATH=\$UNISQLX/bin:\$UNISQLX export PATH	.ib:\$UNICAS/lib:\$UNITOOL_E "H :/utilities:\$UNICAS/bin:\$U	MGR/bin:/usr/ NITOOL_EMGR/b	lib in:\$PATH
Step 6			"unisq	<b> </b> "
Step 7	"\$UNISQLX/admin" . key	"hostkeys"	가	가
	# vi \$UNISQLX/admin	h/hostkeys		
Step 8	UniSQL/X 가 가 cd	. 가 ' mkdir "\$HOME/db"	"\$HOME/db"	가 createdb
	% mkdir \$HOME/db % cd \$HOME/db			
	가	createdb		
	% createdb testdb Creating database w *** UniSQL/X Standa Generated Jan 17	ith 1000 pages. lone Release 6.0.0 * 2003 at 11:48:22	* *	
	"\$UNISQLX/admin/l evaluation	hostkeys"	hostkey	
	% createdb testdb Creating database w Couldn't create dat	ith 1000 pages. abase.		

Г



	Host "BIG" is not authorized to run database.
Step 9	UniCAS 가 uc UniCAS .
	% cd \$UNICAS/bin
	% uc start
	OK:start
Step 10	UniTool Easy-Manager Server 가
	ems Easy-Manager Server .
	% cd \$UNITOOL_EMGR/bin
	% ems start
	· · ·
	Checking /usr/unisql/emgr/conf/emgr pass found OK
	Checking /usr/unisgl/emgr/conf/emgr db.pass found. OK.
	Checking /usr/unisql/emgr/logs OK
	Checking /usr/unisql/emgr/conf OK
	Checking /usr/unisql/emgr/tmp OK

Step 1 ~ 5Easy-Manager Client, Step 6 ~ 10Visual-SQL.Step 10Easy-ManagerVisual-SQL

Step	Action
Step 1	CD EasyManager <version>.zip EasyManager<version>.exe EasyManager<version>.exe . ( EasyManager100.zip EasyManager100.exe .)</version></version></version>
Step 2	"Next"
	InstallShield Wizard         Image: Comparison of the installShield Wizard for EasyManager         Image: Comparison of the installShield Wizard will install EasyManager on your computer. To continue, click Next.         Image: Comparison of the installShield Wizard will install EasyManager on your computer. To continue, click Next.         Image: Comparison of the installShield Wizard will install EasyManager on your computer. To continue, click Next.         Image: Comparison of the installShield Wizard will install EasyManager on your computer. To continue, click Next.         Image: Comparison of the installShield Wizard will install EasyManager on your computer. To continue, click Next.
Step 3	Easy-Manager "Next" . ( "C:\Program

	InstallShield Wizard		×
	Choose Destination Location	<i>₽</i>	
	Select folder where Setup will install files.	Ť	
	Setup will install EasyManager in the following	) folder.	
	To install to this folder, click Next, To install to	a different folder, click Browse	and select
	another folder.		
	Destination Folder		
	C:\Program Files\UniSQL\EasyManager		Browse
	Installahteld		
		< <u>B</u> ack <u>N</u> ext >	Cancel
Step 4	Fasy-Manager		
•	"Next"	. ( "Ea	asyManager")
•	"Next"	. ( "Ea	asyManager")
•	"Next"	. ( "Ea	asyManager")
	"Next"	. ( "E:	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder.	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder.	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li	. ( "Ea Folder listed below. You may typ st. Click Next to continue.	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders:	. ( "Ea Folder listed below. You may typ st. Click Next to continue.	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager	. ( "Ea Folder listed below. You may typ st. Click Next to continue.	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders:	. ( "Ea folder listed below. You may typ st. Click Next to continue.	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program P name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구	. ( "Ea Folder listed below. You may typ st. Click Next to continue.	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구 보조프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program P name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next"         InstallShield Wizard         Select Program Folder         Please select a program folder.         Setup will add program icons to the Program F         name, or select one from the existing folders li         Program Folders:         Existing Folders:         Existing Folders:         보고프로그램         시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 환경 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 관리 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program P name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 환경 도구 보조프로그램 시작프로그램	. ( "Ea	asyManager")
	"Next" InstallShield Wizard Select Program Folder Please select a program folder. Setup will add program icons to the Program F name, or select one from the existing folders li Program Folders: EasyManager Existing Folders: 환경 도구 보조프로그램 시작프로그램	. ( "Ea Folder listed below. You may typ st. Click Next to continue.	asyManager")

Step 5	Easy-Manager 가 Finish Easy-Manager Client .
	InstallShield Wizard InstallShield Wizard Complete Setup has finished installing EasyManager on your computer.
	< Back Finish Cancel
Step 6	CD VisualSQL <version>.zip VisualSQL<version>.exe VisualSQL<version>.exe . ( VisualSQL15108.zip VisualSQL15108.exe .)</version></version></version>
Step 7	" (Y)"
	InstallShield Self-extracting EXE This will install Visual-SQL for UniSQL/X 1,5( Bund 108 ), Do you wish to continue?
Step 8	"Next"

	InstallShield Wizard	X
		Visual-SQL for UniSQL/X Intstallation Copyright(c) UniSQL/X4.X ~ UniSQL/6.X 1998~2003 Korea Computer Communication., Ltd.
		This program will install Visual-SQL on your computer Product Name : Visual-SQL 1.5 Build 108
		< <u>B</u> ack <u>Next</u> Cancel
Step 8	Visual-SQL "Next" . SQL")	( "C:\Program Files\Visual-
	InstallShield Wizard	×
	Choose Destination Location	
	Please enter the destination direct	tory for Visual-SQL 1.5 Build 108.
	C:\Program Files\Visual-SQL	
		Browse
	Installbhield	< <u>B</u> ack <u>N</u> ext > Cancel

Step 8	Visual-SQL 7 " (Y)" Question The directory C:\Program Files\Visual-SOL\ already exists Older files will be overwritten it you continue. Do you with to configure?
Step 9	Visual-SQL "Nov*"
	InstallShield Wizard
	Choose Destination Location
	Please enter the destination directory for Visual-SQL 1.5 Build 108.
	Program Folders:
	UniSQL
	Existing Folders:
	[관리 노구] [봉종프록그램
	1시작프로그램
	UniSQL
	InstallShield
	Z Back Nevt Cancel
Step 10	Visual-SQL 가 가 EasyManager Visual-SQL 가 -> ->UniSQL



- UniSOL			-10
파일(E) 편집(E) 5	·기(V) 즐겨찾기(A) 도구(I)	도용말(1) 📐	
· ~ 위로 - · · · · · · · · · · · · · · · · · ·	Q 검색 PL 폴더 (3) 목록보기	宿宅×の目・	
주소(D) 🔚 C:\#Docum	ents and Settings₩AII Users₩AI	작 메뉴뿜프로그램뿐UniSQL	• 🖗
2-1-7	이름 /	크기 중류	수정한 날파
UniSQL	#EasyManager Visual-SOL	1KB 바로 가기 2KB 바로 가기	2003-02-12 S 2003-02-12 S
아이콘을 선택하면 설명 습니다.	을 볼 수 있		
관련 합목: <u>내 문서</u> 네트워크 환경			
2 개체		1,84KB 🞑 내 컴쿠	E



# 2

## Windows

UniTool

OS 가 Windows UniSQL/X, UniCAS,

.

#### /

Step	Action
Step 1	CD UniSQL <version>_<platform>(UniCAS<version>-</version></platform></version>
	UniSQL <version>_<platform>(UniCAS<version>-TCL<version>).exe</version></version></platform></version>
	W2K(UniCAS4.6.2-TCL8.0).zip         UniSQL5.2P4_INTEL-x86-
	W2K(UniCAS4.6.2-TCL8.0).exe .) UniSQL/X. UniCAS. UniTool Windows
	. (c:\UniSQL )
Step 2	" (Y)"
	InstallShield Self-extracting EXE
Step 3	"Next"

	InstallShield Wizard
	Image: Constraint of the second se
	(Back Next> Cancel
Step 4	Licence Agreement "I accept"
	UniSQL/X 5,2P4 Licence
	License Agreement Please read the following license agreement carefully.
	Licence agreement
	UniSQL 최종 사용자 사용권 계약
	본 계약서는 한국컴퓨터통신(祭(이하 I당사I라 함)과 당사의 프로그램을 사용하는 개인 혹은 법인(이하 I사용자I라 함)간의 권한과 의무를 규정한 것으로, "프로그램" 은 사용자가 사용하는 당사의 소프트웨어 제품과 프로그램 참고 자료를 뜻하며, " 라이센스"는 본 계약의 조항에 의거하여 해당 프로그램을 사용할 수 있는 사용자 의 권리를 지칭합니다. 본 계약은 대한민국 준거법의 지배를 받습니다.
	당사는 사용자가 본 계약에 포함된 모든 조항을 수락한다는 조건에 한해 사용자에 ▼
	Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install UniSQL, you must accept this agreement.
	© Laccept ⊙ Ldo not accept < <u>B</u> ack <u>C</u> ancel <u>N</u> ext>
	"I accept" "Next" .

	"Next"			•	
	UniSQL/X 5,2P4 L	icence			×
	License Agre Please read I	ement he following license agre	ement carefully.	<i>G</i>	
	Licence agre	ement			
	UniSQL 최종 본 계약서는 개인 혹은 탄 은 사용자기 라이센스"는 의 권리를 기	등 사용자 사용권 계약 한국컴퓨터통신(㈜() 법인(이하 (사용자)라 힐 나 사용하는 당사의 소개 는 본 계약의 조항에 의 지칭합니다. 본 계약은	하 I당사I라 함)과 )간의 권한과 의덕 5트웨어 제품과 포 거하여 해당 프로. 대한민국 준거법의	당사의 프로그램을 무를 규정한 것으로, 프로그램 참고 자료를 그램을 사용할 수 있 의 지배를 받습니다.	사용하는 "프로그램" 를 뜻하며," 신는 사용자
	J남사는 사용 Do you acce setup will clo	5사가 본 계약에 포함된 ptall the terms of the pre se. To install UniSQL, yo	민모는 소향을 수약 ceding License Agr u must accept this	락한나는 소건에 한 eement? If you choo agreement.	해 사용사베 💌 se No, the
	⊙ Lacce O Loono	pt t accept	< <u>B</u> ack	<u>C</u> ancel	<u>N</u> ext>
Step 5		<i>"</i> <b>—</b>		"N	lext"
	. (	" I ypical	')		
	. ( InstallShield Wiza	"Typical	')		X
	. ( InstallShield Wiza UniSQL/X 5.2P4	"Typical rd I Setup Type	')	ß	×
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setup	rd I Setup Type	, ) 	Ŀ\$	×
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setur	rd I Setup Type b type Program will be installe most users.	') d with the most cor	nmon options. Reco	x mmended for
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setur © Typical © <u>C</u> ompact	rd I Setup Type Program will be installe most users. Program will be installe	') d with the most cor d with minimum req	nmon options. Reco	× with the second secon
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setur © Typical © Compact © Custom	rd F Setup Type Program will be installe most users. Program will be installe You may choose the o users.	') d with the most cor d with minimum req ptions you want to	nmon options. Reco uired options.	x mmended for
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setur © Typical © Custom InstallShield	rd F Setup Type Program will be installe most users. Program will be installe You may choose the o users.	d with the most cor d with minimum req ptions you want to < <u>B</u> ack	nmon options. Reco uired options. install. Recommende	x mmended for
	. ( InstallShield Wiza UniSQL/X 5.2P4 Select the setur © Typical © Compact © Custom InstallShield	rd F Setup Type Program will be installe most users. Program will be installe You may choose the o users.	') d with the most cor d with minimum req ptions you want to < <u>B</u> ack	nmon options. Reco uired options. install. Recommende	x mmended for d for advanced



Step 6	. ( "UniSQL")	"Next"
	InstallShield Wizard Choose Destination Location( In Start Menu )	
	Please enter the destination directory for UniSQL/X 5.2P4 Program Folders:  Existing Folders:  Existing Folders:  관리 도구 보조프로그램 시작프로그램 UniSQL InstallShield < <u>Back Next &gt;</u>	Cancel
Step 7	DLL "Don't display this message again." "Ignore"	
	Locked File Detected       Image: Section of the section	
Step 8	Hostkey	"Next"

	InstallShield Wizard		×
	Hostkey	$\searrow$	
		-	
	Please enter your hostkey		
	J		
	InstallShield		
		< <u>B</u> ack	Next > Cancel
Step 9		. "	
	Information	×	
	Hostkeys file has been crea	ated successfully,	
	·		
	<u>(</u>		
Step 10			, (), (), (), (), (), (), (), (), (), (),
	my computer pow? 74	"Finich"	"Yes, I want to restart
		1 11 11 51 1	•





Step 12	Easy-Manager Visual-SQL , UniSQL Manager UniSQL Manager . (한 濟 歐 꼬후 3:59
Step 13	UniSQL Manager 7 Jh UniSQL , UniCAS, Easy- Manager Server start/stop , UniTool Easy-Manager Client, Visual-SQL . About UniSQL UniCAS Easy-Manager UniTool Exit



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# 3

### Driver

ODBC, JDBC, PHP



### ODBC

Step	Action
Step 1	CD UniSQL_ODBC_ <version>.zip UniSQL_ODBC_<version>.exe . ( UniSQL_ODBC_2.0.5.zip UniSQL_ODBC_2.0.5.exe .)</version></version>
Step 2	" (Y)" InstallShield Self-extracting EXE This will install UniSQL_ODBC_2.5, Do you wish to continue? الالالا
Step 3	<text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text>



Step 6	" DSN" " 7 <sup>+</sup> "	. DSN
	NODBC 데이터 원본 관리자	? X
	사용자 DSN   시스템 DSN   파일 DSN   드라이버   추적   변경 풀루	[정보]
	사용자 데이터 원본(U):	* 101
	이름 드라이버 OFASE Files dBase Files - Word Excel Files FoxPro Files - Word Microsoft dBase Driver (*,dbf) Microsoft dBase VFP Driver (*,dbf) Microsoft Excel Driver (*,dbf) Microsoft Access Driv	····································
	이 ODBC 사용자 데이터 원본에는 표시된 데이터 공급자와 정보가 있습니다. 사용자 데이터 원본은 사용자만 볼 수 에서만 사용 가능합니다.	의 연결 방법에 대한 있으며 현재 시스템
	<b>확인</b> 취소 적용	용( <u>A</u> ) 도움말
Step 7	"UniSQL Driver"	
	새 데이터 원본 만들기 데이터 원본을 설정할 드라이버를 선택하 이름 Microsoft ODBC for Oracle Microsoft Paradox-Trieber (*,db) Microsoft Paradox-Trieber (*,db) Microsoft Text Driver (*,txt) *,csv) Microsoft Text-Treiber (*,txt) *,csv) Microsoft Visual FoxPro-Driver Microsoft Visual FoxPro-Treiber SQL Server UniSQL Driver	실시오( <u>S</u> ). 비간▲ 2,5 4,0 4,0 4,0 6,0 6,0 6,0 3,7 2,0 ▼
	< 뒤로( <u>B</u> ) 마침	 취소
Step 8	"OK"	

	Config UniSQL Data	Sources		×	
	DSN	unisql_odbc		<u></u> }	
	Description	UniSQL ODBC	DEMO	_	
	DB Name	demodb			
	DB User	public		_	
	Password				
	Server Address	210.216.33.251			
	Server Port	43300			
	FETCH_SIZE	100			
		ОК	Cancel		
Ctore O			"		
Step 9	DSN 가			DSN"	DSN
	NODBC 데이터 원본 관	리자			?×
	사용자 DSN   시스템	)SN│파일 DSN│드 	라이버 추적	연결 풀링   정보	
	사용자 데미터 원본()	)): (도라이버			추가( <u>D</u> )
	dBASE Files dBase Files - Word	Microsoft dE	lase Driver (*,dbf lase VFP Driver (	) *.dbf)	제거( <u>B</u> )
	Excel Files FoxPro Files - Wor MS Access Databa	Microsoft E> d Microsoft Fo use Microsoft Ar	cel Driver (*,xls) xPro VFP Driver ( cess Driver (* m	(*, dbf)	구성( <u>C</u> )
	unisql_odbc Visual FoxPro Data	UniSQL Driv base Microsoft Vi	er sual EoxPro Drive	ir	
	Visual FoxPro Tab	es Microsoft Vi	sual FoxPro Drive	ir	
	ODBC 사 정보가 5	F용자 데이터 원본에 있습니다. 삶용자 데이	는 표시된 데이터 이터 원본은 사용지	공급자와의 연결 ! 만 볼 수 있으며 한	방법에 대한 현재 시스템
	에서만 /	r용 가능합니다.			
		확인	취소	적용( <u>A</u> )	도움말



## JDBC

Step	Action
Step 1	UniSQL JDBC unisqljdbc <version>.jar 2.0.2 (JDBC ) unisqljdbc202.jar CD unisqljdbc "unisqljdbc*.jar" \$HOME/driver UniSQL JDBC</version>
	% mkdir \$HOME/driver % cp /cdrom/unisqljdbc*.jar \$HOME/driver
	Windows .
	C:> mkdir \UniSQL\driver C:> copy E:\unisqljdbc*.jar \UniSQL\driver
Step 2	CLASSPATH "unisqljdbc*.jar" 기
	■ "csh" ".cshrc"
	setenv CLASSPATH \$HOME/driver/unisqljdbc202.jar:\$HOME/jdk1.3/lib
	■ "sh" ".profile"
	CLASSPATH=\$HOME/driver/unisqljdbc202.jar:\$HOME/jdk1.3/lib export CLASSPATH
	Windows "autoexec.bat"
	set CLASSPATH=C:\UniSQL\driver\unisqljdbc202.jar:C:\jdk1.3\lib



### PHP

Step	Action
Step 1	UniSQL JDBC php_unisql_ <platform>_<os>_<version>.tar.Z SUN-SPARC OS 7   Solaris2.6 1.2.0 (PHP ) php_unisql_sparc_solaris26_1.2.0.tar.Z CD php_unisql CD \$HOME/driver UniSQL PHP</version></os></platform>
	% mkdir \$HOME/driver % cd \$HOME/driver % cat /cdrom/php_unisql*.tar.Z   uncompress   tar xvf -
Step 2	\$HOME/driver     unisql <php-version>.so       .so     PHP       .so     "php.ini"</php-version>
	■ "extension_dir" 7
	extension_dir=/usr/unisql/driver
	<ul> <li>"extension"</li> <li>unisql4.0.1pl2.so</li> </ul>
	extension=unisql4.0.1pl2.so
	■ [UniSQL] 7- unisql.err_path .
	[UniSQL] unisql.err_path=/usr/unisql/driver/unisql_err.msg



# A

# Appendix

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Appendix

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UniCAS 4.6,

#### , UniSQL 6.0 JDBC 2.0, ODBC 2.1, PHP 2.0, TCL 8.0/8.3 UniWEB Not Applicable Spec

UniSQL UniCAS PHP JDBC ODBC TCL UniWEB 6.0 4.6.x 5.2 2.0 2.0 N/A 2.0 8.0/8.3 5.1 4.5.x 5.0 4.3 4.2 1.5/2.0 1.2/2.0 4.1.6 1.1.0 4.1.[3-5] 8.3 1.0.[2-6] 4.1 1.0 3.8.x 4.1.[0-2] 1.0.x 4.0.x 1.0/1.0.1 8.0 4.0.x N/A N/A N/A N/A N/A

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#### UniSQL/X, UniCAS, UniTool

- Sun Microsystems SPARC with Solaris 2.6 or 7
- HP with HP-UX 11.0
- IBM RS/6000 with AIX 4.3.X
- OpenUnix 8

.

- Intel Pentium-compatible with Red Hat Linux 7.2
- Intel Pentium-compatible with Windows2000/XP

UniSQL/X, UniCAS, UniTool 128 MB , 300 MB

5.0 version platform

#### Sun Solaris2.6, 7

Sun Solaris2.6 Solaris7 UniSQL 5.0

 , Solaris7 libthread
 patch13 upgrade
 patch cluster
 SunSolve Homepage (<u>http://sunsolve.sun.com</u>)
 (7<sup>†</sup> patch cluster
 .)

#### libthread patch version

% showrev –p | grep 106980 ( Solaris7, patch level 13 , :106980-13) % showrev –p | grep 105568 ( Solaris2.6 , patch level 20 )

#### HP-UX 11.0

Kernel Parameters	Value		Default	C	Description	
Memory	Parameters					
[HP-UX11.0		]				
. ker (root user)	nel parameter	HP-UX	sam			
Server 가						
			가			DB
HP-UX	UniSQL 5.0		I	kernel	parameter	



	UniSQL 5.0 :		Maximum process
	(unisqlx_num_data_buffers		data segment size
maxdsiz	* unisql_page_size)	64MB	
maxaoiz	+(unisqlx_max_clients	0 INIE	
	+ unisqlx_active_requests) * 1024		
mayogiz	16MB		Maximum process
111022212	TOWE	OIVID	stack segment size
movteiz	22MB	64MB	Maximum process
maxisiz	321010	041010	text segment size
movfiles	1024	64	Maximum file
maxilles	1024	04	process can open

#### ■ Thread Parameters

Kernel Parameters	Value	
nkthread	(((NPROC*7)/4)+unisql_max_clients+ unisqlx_active_requests)	
nproc	((MAXUSERS*3)+가 )	

Kernel

el

#### user resource limit

•

UniSQL

rebuild

csh		
% limit		
cputime	unlimited	
filesize	unlimited	
datasize	3711104 kbytes	
stacksize	386048 kbytes	
coredumpsize	2097151 kbytes	
memoryuse	unlimited	
descriptors	2048	

#### sh

\$ ulimit –a	
time(seconds)	unlimited
file(blocks)	unlimited
data(kbytes)	3711104

stack(kbytes) memory(kbytes)	386048 unlimited
coredump(blocks)	4194303
nofiles(descriptors)	2048

#### IBM AIX 4.3.X

SMP 가	AIX(CPU	가 2		mach	nine)		
thread tuning	)						UniSQL
5.0				(serve	r 가 C	PU	
	) 가						system
			. AIX4.3	3.X	UniSC	QL 5.0	
가	, SCOPE SYST	ΈM,	SCOPE F	ROCE	SS		
	system		thread				
		proc	cess		thread		
	. UniSQL 5.0		default	PRO	DCESS	SCOPE	mode
, S	SYSTEM SCOPE					sqlx.i	nit
is_pthread_s	cope_process	0				System	scope
Pro	ocess scope						

SYSTEM SCOPE 가 .

■ [AIX site ]

http://www.rs6000.ibm.com/doc\_link/en\_US/a\_doc\_lib/aixbman/prftungd/2365c35.htm

#### [CASE 1 ] SCOPE\_SYSTEM

[\$UNISQLX/admin/sqlx.init]

is\_pthread\_scope\_process=0

Environment variables	Default	Range	Recommended Value
YIELDLOOPTIME	0	A positive value	10

% vi \$UNISQLX/admin/sqlx.init

is\_pthread\_scope\_process=0 # 가

csh

% vi ~unisql/.cshrc setenv YIELDLOOPTIME 10

#### sh

\$ vi ~unisql/.profile YIELDLOOPTIME=10 export YIELDLOOPTIME

#### [CASE 2] SCOPE\_PROCESS

Environment variables	Default	Range	Recommended Value
YIELDLOOPTIME	0	A positive value	10
AIXTHREAD_MNRATIO	8:1	Two positive values (p:k), where k is the number of kernel threads that should be employed to handle p runnable pthreads	1:1

#### csh

% vi ~unisql/.cshrc setenv YIELDLOOPTIME 10 setenv AIXTHREAD\_MNRATIO 1:1

#### sh

\$ vi ~unisql/.profile
YIELDLOOPTIME=10
export YIELDLOOPTIME
AIXTHREAD\_MNRATIO=1:1
export AIXTHREAD\_MNRATIO

#### ■ [ ] Thread Support Tunable Parameters

#### AIXTHREAD\_MNRATIO (Version 4.3 and later)

Purpose:

Controls the scaling factor of the library. This ratio is used when creating and terminating pthreads.



Values:

Default: 8:1; Range: Two positive values (p:k), where k is the number of kernel threads that should be employed to handle p runnable pthreads

Display:

echo \$AIXTHREAD\_MNRATIO (this is turned on internally, so the initial default value will not be seen with the echo command)

Change:

#### AIXTHREAD\_MNRATIO=*p*:*k* export AIXTHREAD\_MNRATIO

Change takes effect immediately in this shell. Change is effective until logging out of this shell. Permanent change is made by adding **AIXTHREAD\_MNRATIO**=*p:k* command to the **/etc/environment** file.

Diagnosis:

N/A

Tuning:

May be useful for applications with a very large number of threads. However, always test a ratio of 1:1 because it may provide for better performance.

Refer to:

Variables for Process-Wide Contention Scope

#### **YIELDLOOPTIME**

Purpose:

Controls the number of times to yield the processor before blocking on a busy lock (only for libpthreads). The processor is yielded to another kernel thread, assuming there is another runnable kernel thread with sufficient priority.

Values:

Default: 0; Range: A positive value

Display:

echo **\$YIELDLOOPTIME** (this is turned on internally, so the initial default value will not be seen with the echo command)

Change:



#### YIELDLOOPTIME=*n* export YIELDLOOPTIME

Change takes effect immediately in this shell. Change is effective until logging out of this shell. Permanent change is made by adding **YIELDLOOPTIME**=n command to the **/etc/environment** file.

Diagnosis:

If threads are going to sleep often (lot of idle time), then the **YIELDLOOPTIME** may not be high enough.

Tuning:

Increasing the value from default value of 0 may benefit if you do not want the threads to go to sleep when waiting for locks.

Refer to:

**Thread Environment Variables** 

#### **OpenUnix 8**

OpenUnix8	operating	system				Kernel
Parameter	UniSQ	L 5.0				
UniSQL 5.0					가	Kernel
Parameter						
						<b>.</b>
		(current)		(default)		. OpenUnix8
		(tuning	)		OpenUnix8	

/etc/conf/cf.d/stune

OpenU	nix8
가	

		(MAX)
SCORLIM	The soft limit specifying the largest size, in bytes, of a core file that can be created. A soft limit of ``0" prevents the creation of core files.	0X7FFFFFFF
HCORLIM	The maximum value of SCORLIM	0X7FFFFFF
SDATLIM	The soft limit specifying the maximum size, in bytes, of a process's heap.	0X7FFFFFF
HDATLIM	The maximum value of SDATLIM.	0X7FFFFFF



SSTKLIM	The soft limit specifying the maximum size, in bytes, of the stack segment for a process.	0X7FFFFFF
HSTKLIM	The maximum value of SSTKLIM.	0X7FFFFFF
SVMMLIM	The soft limit specifying the maximum address space that can be mapped to a process.	0X7FFFFFFF
HVMMLIM	The maximum value of SVMMLIM.	0X7FFFFFF
SFSZLIM	The soft limit specifying the largest offset, in bytes, of any single file that can be created by the process.	0X7FFFFFFF
HFSZLIM	The maximum value of SFSZLIM.	0X7FFFFFF
SFNOLIM	The soft limit specifying the maximum number of open files the process can have.	2048
HFNOLIM	The maximum value of SFNOLIM	2048
NPROC	An upper bound on the number of processes in the system	12500
MAXUP	Specifies the number of concurrent processes a user without P_SYSOPS privilege can run.	5000
MAXULWP	Maximum number of additional lightweight processes (LWPs) per user created explicitly using _lwp_create.	65000
ULIMIT	virtual memory resource limit	unlimited
stream socket		256

#### Parameter

- 1) root user login.
- vi /etc/conf/cf.d/stune

# cd /etc/conf/cf.d # vi stune

idtune

# cd /etc/conf/bin #./idtune SCORLIM 0x7FFFFFF .

#### #./idtune HCORLIM 0x7FFFFFF

■ ULIMIT . (/etc/default/login)

# cd	/etc/default	:
# vi lo	ogin	
# ULI	MIT	COMMENT(#)

■ stream socket 256 . ( /etc/conf/sdevice.d/ticots )

# cd /etc/conf/sdevice.d
# vi ticots

Rebuild System Kernel

# cd /etc/conf/bin	
# ./idbuild –B	
# init 6	Reboot

#### **Redhat Linux 7.2**

UniSQL 6.X Redhat Linux7.2 (Kernel 2.4.7, glibc2.2.4)
 Kernel version glibc
 version UniSQL 6.X

Check the Kernel version % uname –r 2.4.7-10smp

Check the glibc version % rpm –qa | grep glibc glibc-common-2.2.4-13 glibc-2.2.4-13 glibc-devel-2.2.4-13