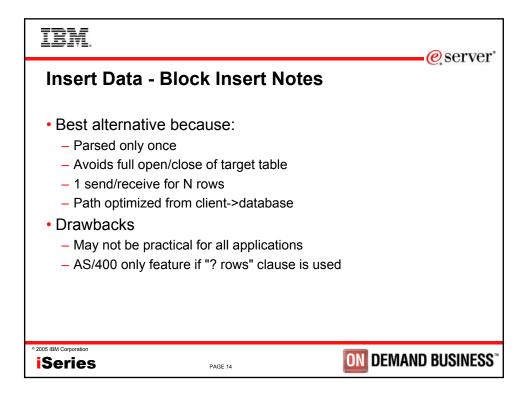
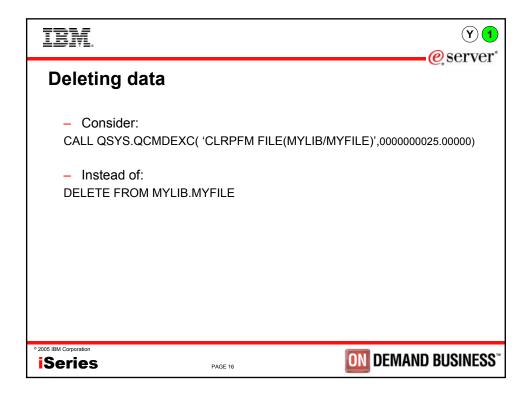


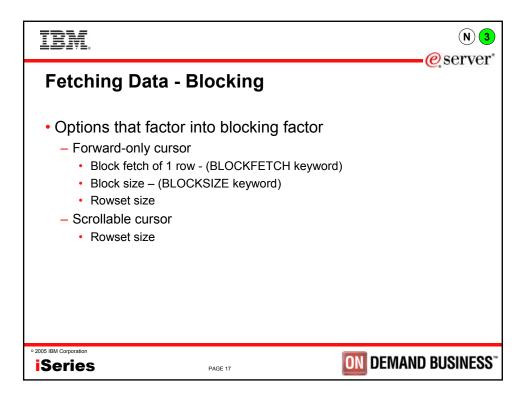
IBM.	
Insert Data - Prepare Once, Execute Many	e server
strcpy(stmt,"insert into IBMLIB.TAB1 values (?,?,?)"); rc = SQLPrepare(hStmt,stmt,SQL_NTS);	
/* Specify the bindings for each parameter */ rc = SQLBindParameter(hStmt, );	
<pre>for (i=0;i<row_count;i++) *="" corresponding="" for="" markers="" parameter="" pre="" rc="SQLExecute(hStmt);" set="" strcpy(col1,value);="" variables="" {="" }<=""></row_count;i++)></pre>	
• 2005 IBM Corporation <b>iSeries</b> PAGE 12	D BUSINESS"

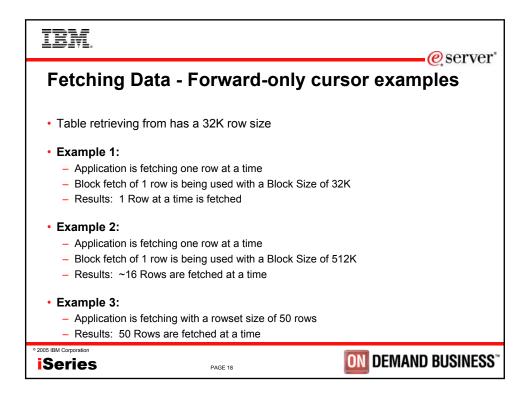
IBM.	
Insert Data – Block Insert	e server
<pre>strcpy(stmt,"insert into IBMLIB.TAB1 values (?,?,?)"); rc = SQLPrepare(hStmt,stmt,SQL_NTS);</pre>	
rc = SQLSetStmtAttr(hStmt,SQL_ATTR_PARAMSET_SIZE, (PTR)ROW_COUNT,SQL_IS_INTEGER);	
/* Specify the bindings for each parameter */ rc = SQLBindParameter(hStmt, );	
<pre>for (i=0;i<row_count;i++) *="" corresponding="" for="" markers="" parameter="" rc="SQLExecute(hStmt);&lt;/pre" set="" strcpy(col1[i],value);="" variables="" {="" }=""></row_count;i++)></pre>	
• 2005 IBM Corporation ISeries PAGE 13	ND BUSINESS"

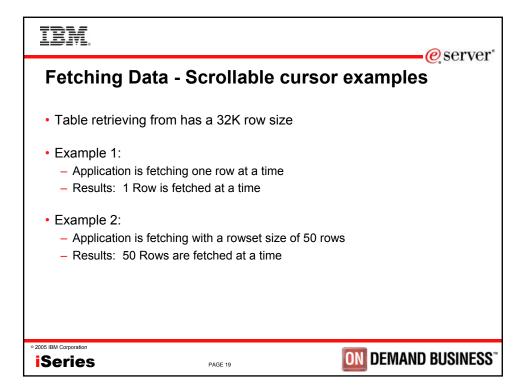


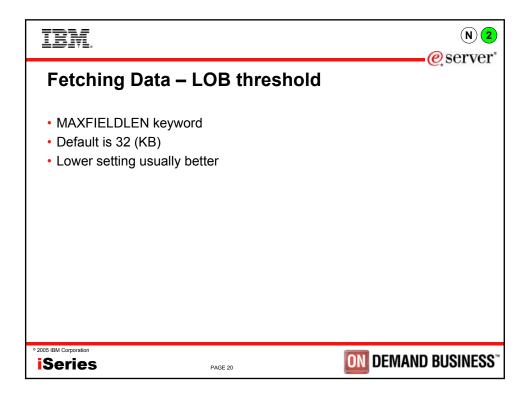
IBM.		e server
Block Ins	ert Performance	
For 500 36-	-byte rows with three columns	
Insert with constants		97.6x
Prepare once, Execute many		<b>13.6</b> ×
Block insert		
	Response Time	
• 2005 IBM Corporation	PAGE 15	<b>DEMAND BUSINESS</b> <sup>**</sup>

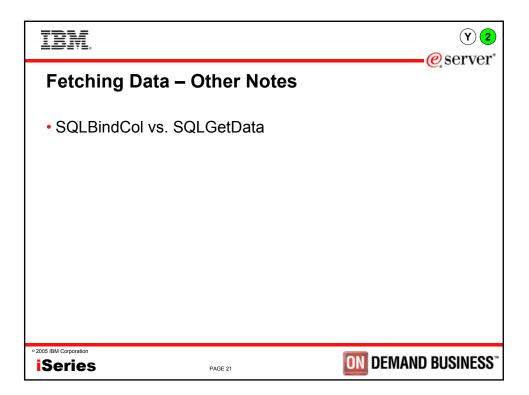


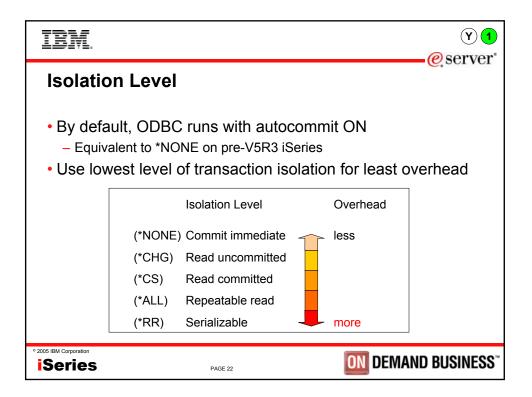


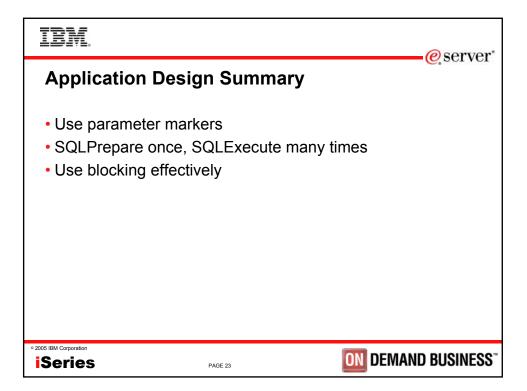


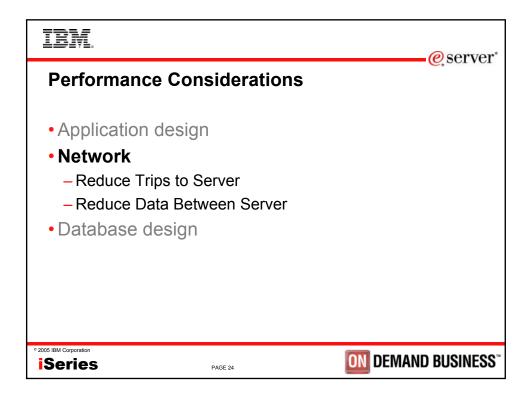


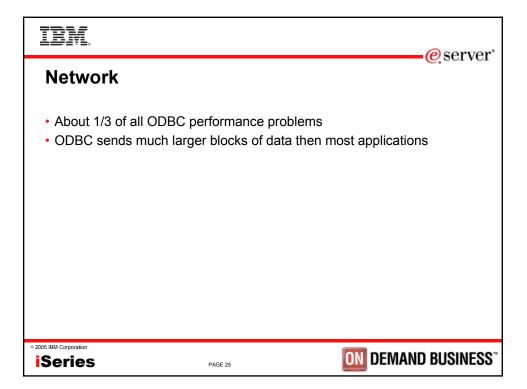


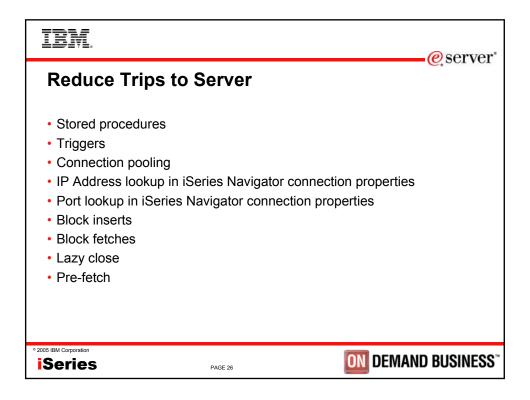


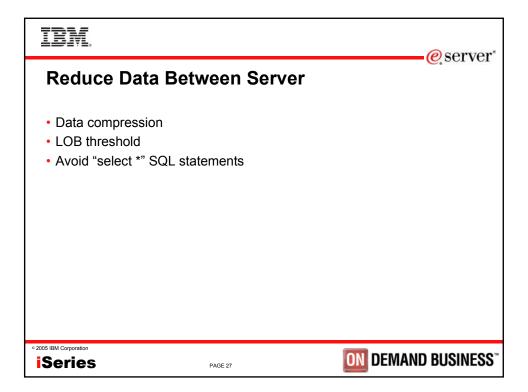


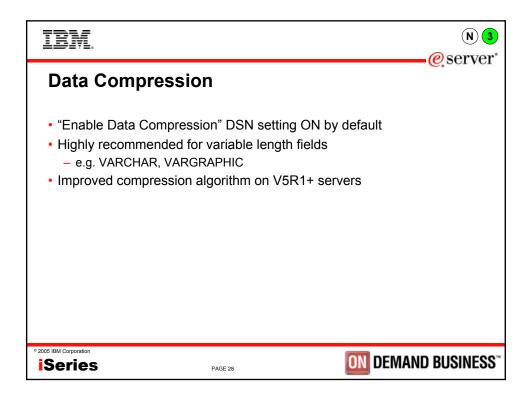






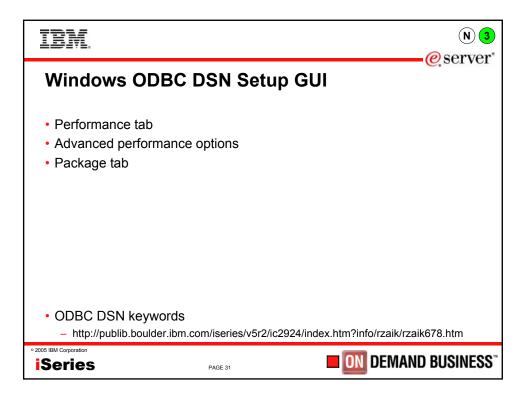




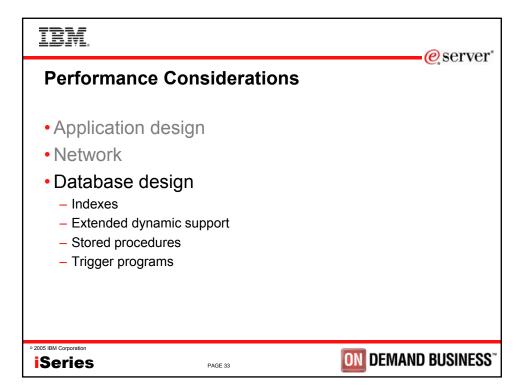


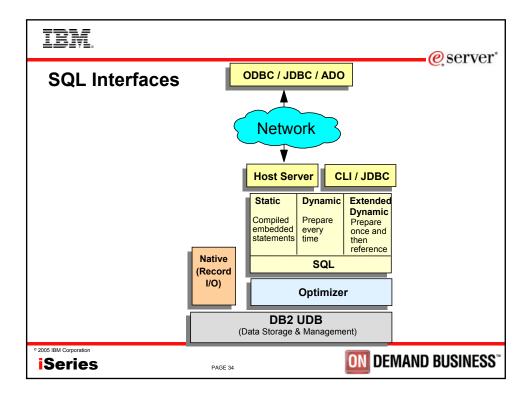
IBM.		
CWBCOPWR		eserver <sup>®</sup>
<ul> <li>Options to concentrate of – Communication buffer s – TCP/IP buffer size (Opt – TCP/IP nagling (Option         </li> </ul>	size (Option /SC) ions /WSS and /WSR)	
<ul> <li>Found in \Program Files</li> <li>See CWBCOPWR.HTM</li> </ul>		ectory
• 2005 IBM Corporation	PAGE 29	<b>DIN</b> DEMAND BUSINESS <sup>**</sup>

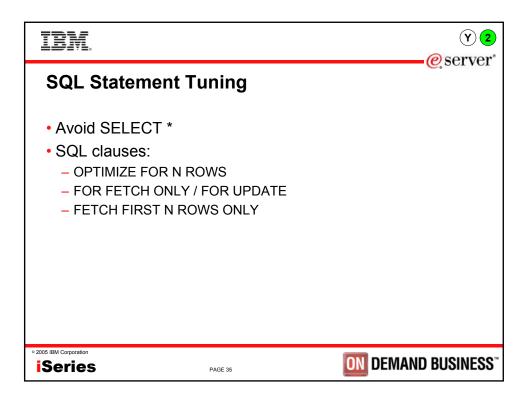
		e server
Network Summar	у	e server
<ul> <li>Reduce Trips to Ser</li> <li>Reduce Data Betwe</li> </ul>		
• 2005 IBM Corporation	PAGE 30	<b>DN</b> DEMAND BUSINESS <sup>®</sup>

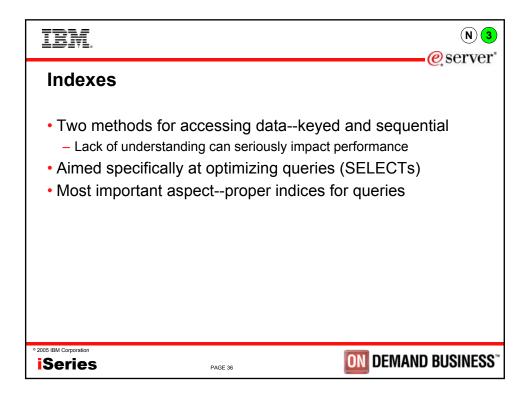


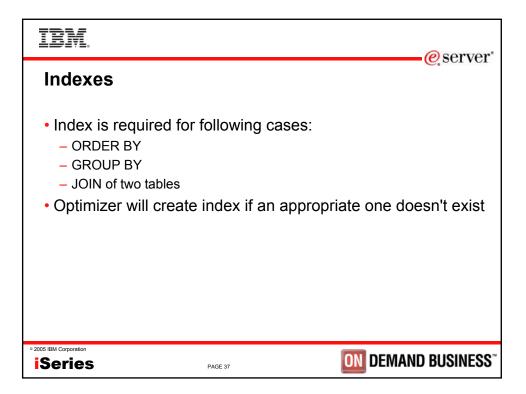
IBM.		N	3
	🅼 Data Source Proper	ties (new)	?×
Linux ODBC DSN GUI	VXN?		
	Name	MYDSN	
	Description	iSeries Access ODBC Driver	
<ul> <li>Other options added to the .odbc.ini</li> </ul>	Driver	iSeries Access ODBC Driver	
file or programmatically specified via	System	MYSYSTEM	
SQLDriverConnect API	UserID	MYUSERID	
	Password	MYPASSWORD	
	Naming	0	-
	DefaultLibraries	QGPL	
	ConnectionType	0	<u> </u>
	CommitMode	1	_
	ExtendedDynamic	1	<u> </u>
	DefaultPkgLibrary	QGPL	
	DefaultPackage	A/DEFAULT(IBM),2,0,1,0,512	_
	AllowDataCompression		_
	LibraryView	0	<u> </u>
	AllowUnsupportedChar	-	_
	ForceTranslation	0	<u> </u>
° 2005 IBM Corporation	Trace	ļo	
iSeries PAGE 32			in

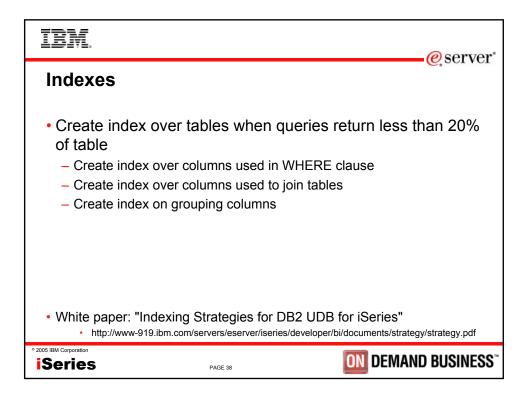


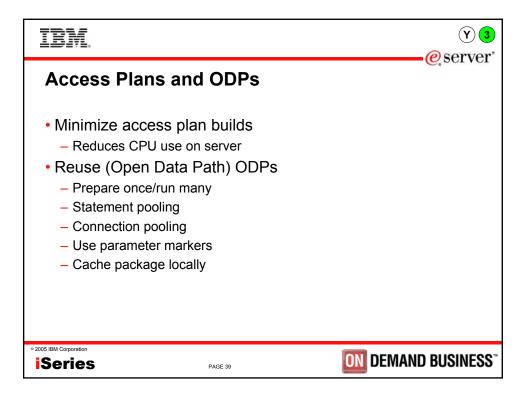




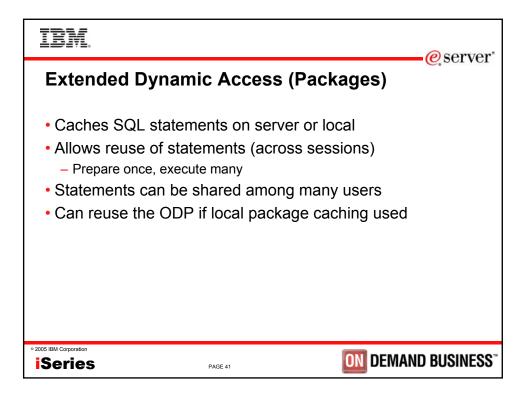


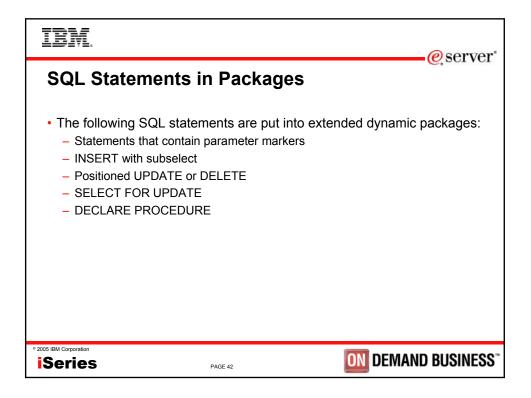


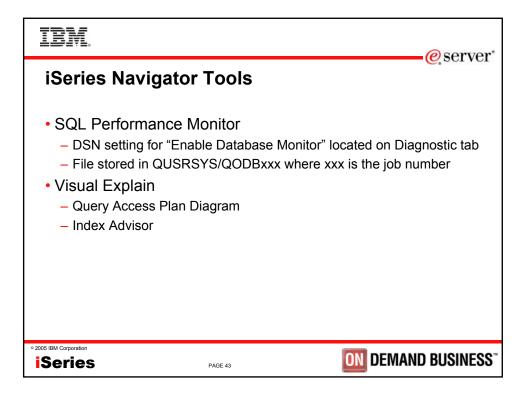


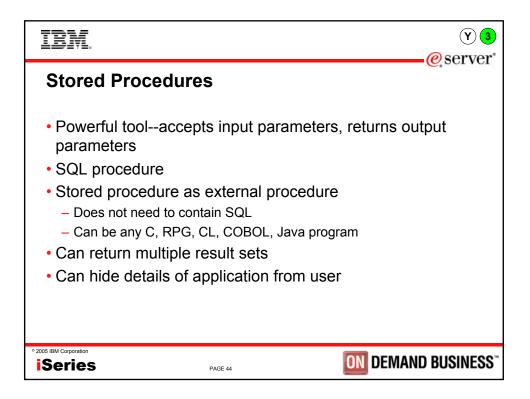


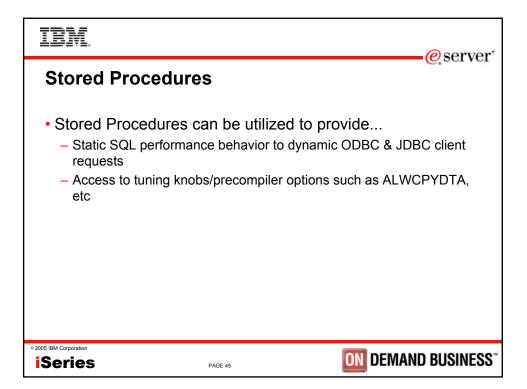
IBM.	(Y) 3 @ server"
Extended Dynamic Access (F	
<ol> <li>Application runs: SELECT * FROM MYTABLE WHERE COL1=?</li> <li>Application re-runs: SELECT * FROM MYTABLE WHERE COL1=?</li> </ol>	SELECT * FROM MYTABLE WHERE COL1=? Access plan
° 2005 IBM Corporation Series PAGE 40	<b>DN</b> DEMAND BUSINESS <sup>**</sup>

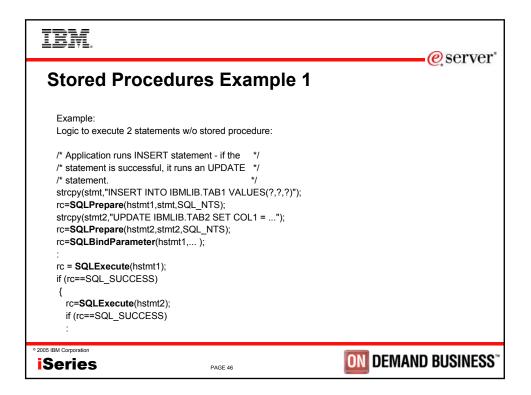




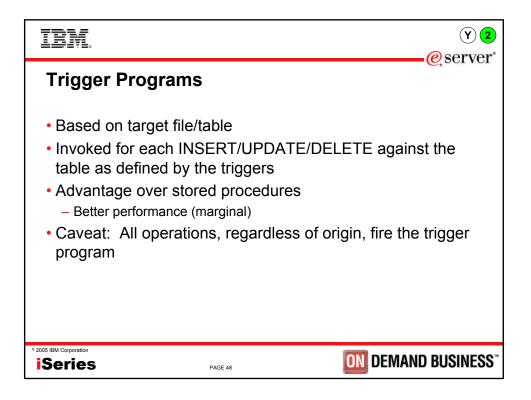


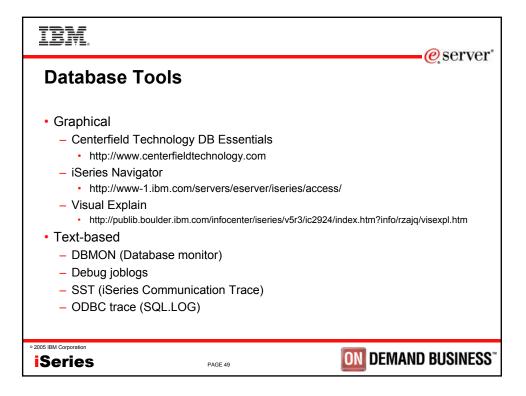


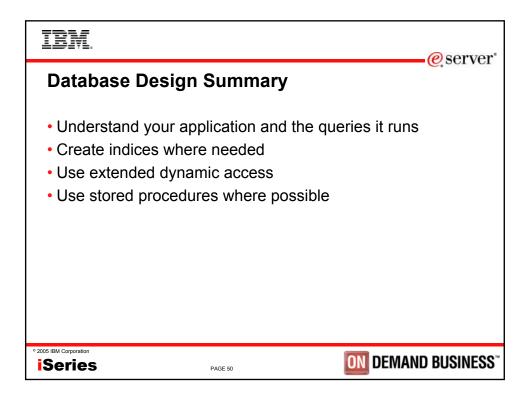


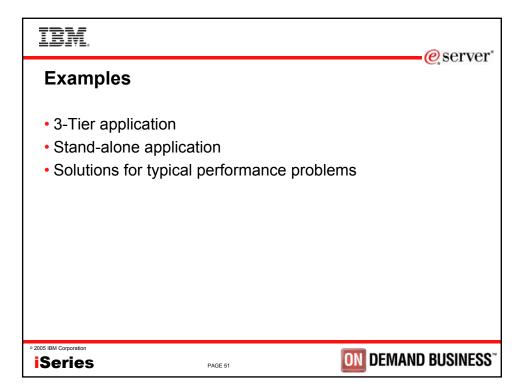


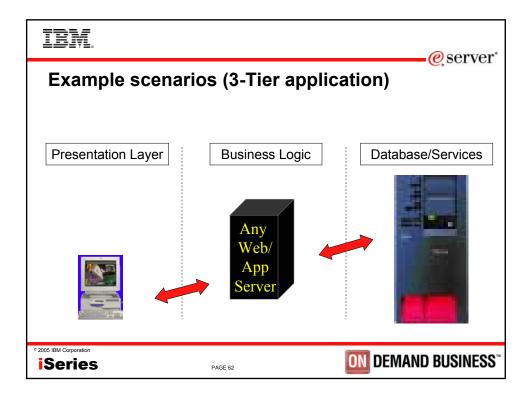
	eserver*
Stored Procedures Example 2	
Example: Logic to execute the same statements using stored procedure: /* Application invokes stored procedure passing all */ /* the parameters necessary for both the INSERT and */ /* UPDATE statement */ strcpy(stmt,"CALL IBMLIB.PROC1 (?,?,?)"); rc = SQLPrepare(hstmt1,stmt,SQL_NTS);	
rc = SQLBindParameter(hstmt1,); : rc = SQLExecute(hstmt1); if (rc==SQL_SUCCESS) { :	
2005 IBM Corporation     Series     PAGE 47	<b>ON</b> DEMAND BUSINESS"

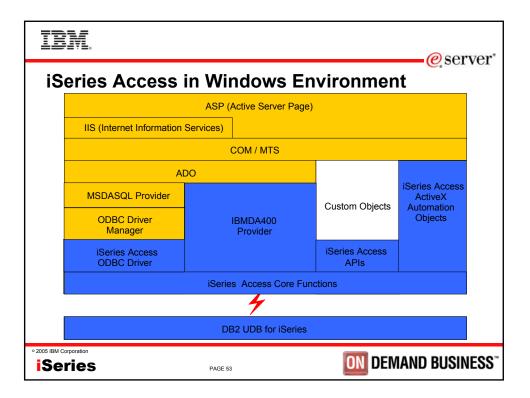




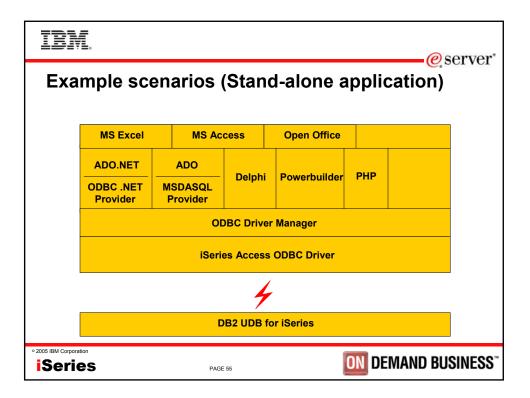




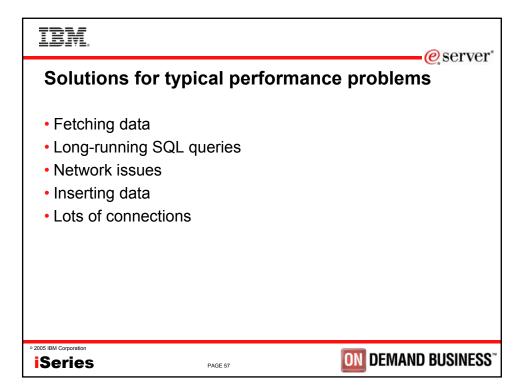


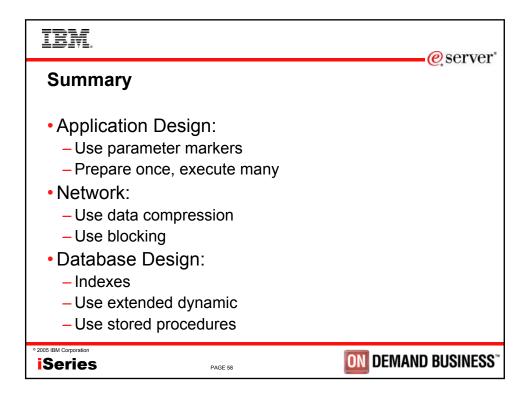


IBM		@ sarvar
Helpful settings	with 3-Tier applic	etions
<ul> <li>Connection pooling</li> <li>Stored procedures</li> <li>Block fetches</li> </ul>		
• 2005 IBM Corporation	PAGE 54	ON DEMAND BUSINESS"



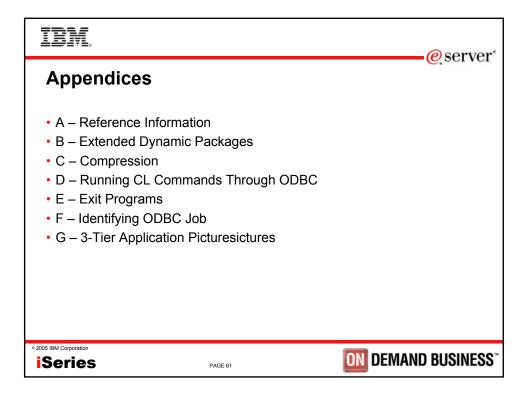
IBM.		eserver"
Helpful setting	s with stand-	alone applications
<ul> <li>Packages</li> <li>Block fetch of 1 ro</li> </ul>	ЭW	
° 2005 IBM Corporation	PAGE 56	<b>DIN</b> DEMAND BUSINESS <sup>**</sup>

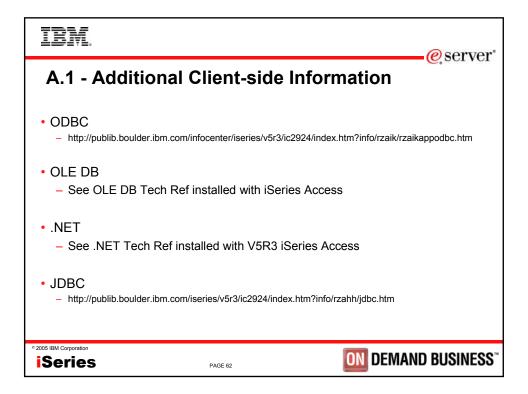




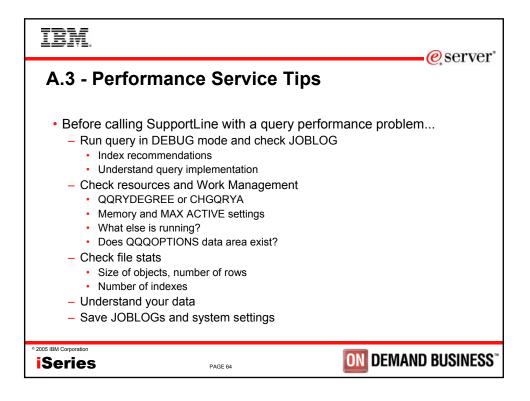
IBM. @server
iSeries Access for Windows – Sessions in Chicago
<ol> <li>26GH - MS Office with Client Access</li> <li>31GJ - Administration of iSeries Access for Windows: Advanced Tips</li> <li>31GH - MS Office and Client Access Integration Session 1: Setup and Overview</li> <li>32GH - MS Office and Client Access Integration Session 2: Word and Excel</li> <li>33GH - MS Office and Client Access Integration Session 3: Access-Web-Sending Data</li> <li>36CA - iSeries Access for Windows: What's New in V5R3</li> <li>41CB - iSeries Access Data Transfer: Tips and Techniques</li> <li>41LC - LAB: MS Office with CA/400</li> <li>42CB - iSeries Access for Windows: Security and Communications Tips</li> <li>44CA - iSeries Access for Windows in a .NET World</li> <li>45LA - OPEN LAB: iSeries Access for Windows with the Experts</li> <li>52CB - Everything you wanted to know about PC5250 emulation</li> <li>56CB - Performance Tune iSeries Access ODBC Driver</li> </ol>
• 2005 IBM Corporation <b>iSeries</b> PAGE 59 <b>DEMAND BUSINESS</b> <sup>**</sup>

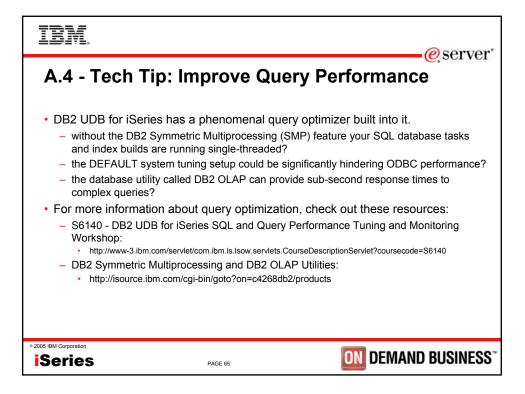
IBM.	e server
Session Title:	Performance Tune iSeries Access ODBC
Session ID:	401918
Agenda Key:	56CB
Speaker:	Brent Nelson
• 2005 IBM Corporation	PAGE 60 DEMAND BUSINESS"

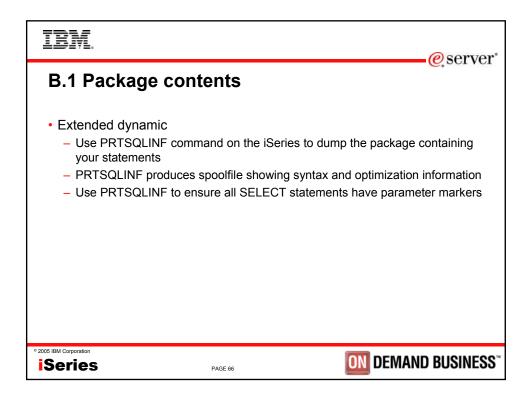


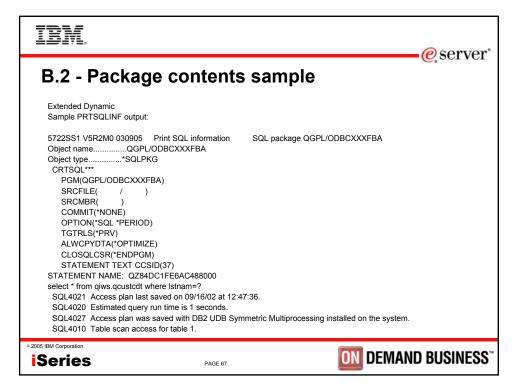


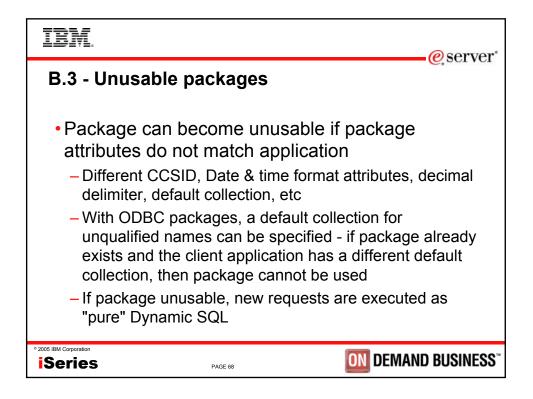
IBM.	erver"
A.2 - Additional Information	
<ul> <li>DB2 UDB for iSeries home page <ul> <li>http://ibm.com/servers/eserver/iseries/db2/</li> </ul> </li> <li>Newsgroups <ul> <li>comp.sys.ibm.as400.misc</li> <li>comp.databases.ibm-db2</li> </ul> </li> <li>Education Resources - Classroom &amp; Online <ul> <li>http://ibm.com/servers/eserver/iseries/service/igs/db2performance.html</li> </ul> </li> <li>DB2 UDB for iSeries Publications <ul> <li>Online Manuals: http://ibm.com/servers/eserver/iseries/db2/books.htm</li> <li>Indexing Strategies for DB2 UDB for ISeries: http://www.iseries.ibm.com/developer/bi/docum</li> <li>DB2 UDB for AS/400 Redbooks (http://ibm.com/redbooks)</li> <li>DB2 UDB for AS/400 Object Relational Support (SG24-5409)</li> <li>DB2/400 Advanced Database Functions (SG24-4249-02)</li> </ul> </li> <li>SQL/400 Developer's Guide by Paul Conte &amp; Mike Cravitz <ul> <li>29th Street Press, ISBN 1-882419-70-7</li> <li>http://as400network.com/str/books/Uniquebook2.cfm?NextBook=183</li> </ul> </li> </ul>	ents/strategy/strategy.pdf
• 2005 IBM Corporation ISeries PAGE 63	ND BUSINESS"



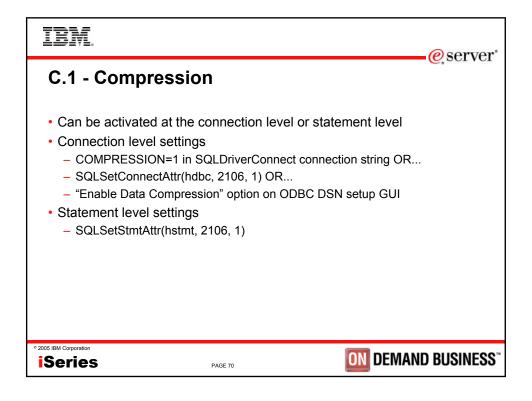


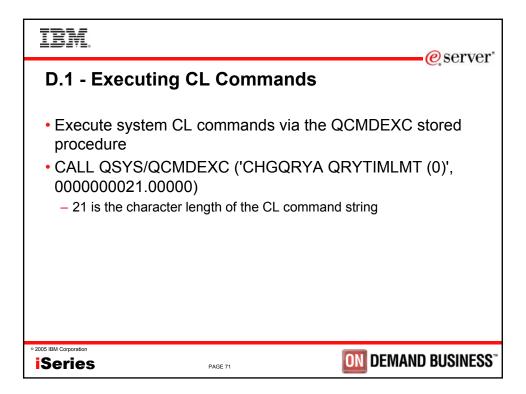


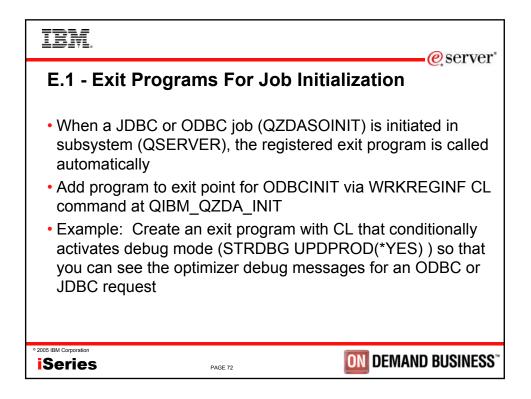


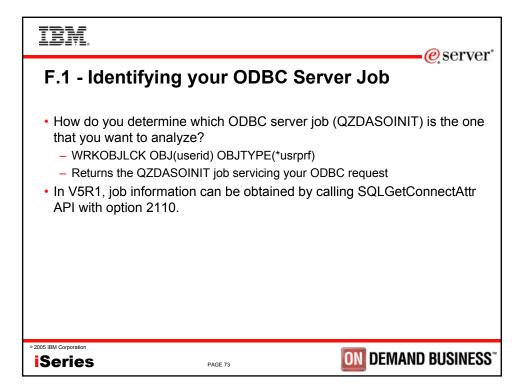


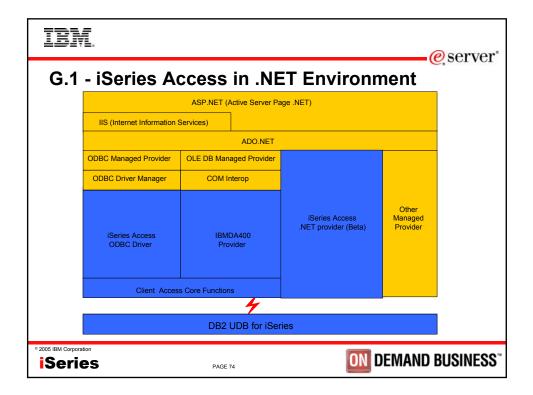
IBM.			-@server
B.4 - Package r	names		
<ul> <li>First time an SQL sta doesn't exist yet)</li> </ul>			,
<ul> <li>Can specify a name a the system do that w</li> </ul>	•	ckage on the data sou	rce or let
	e and appending 3 lo	eated by taken the first 7 etters that are encoding c	
		h would be: APPROACFBA name for a specific applicat	ion
•	mined by data sourc		
• 2005 IBM Corporation	PAGE 69	<b>ON</b> DEMAN	D BUSINESS"











IBM.		eserver"
G.2 - i	Series ODBC in Linux Environment	
	PHP Script	
	Linux Web/App Server	
	unixODBC Driver Manager	
	iSeries ODBC Driver for Linux	
	iSeries 🖌 LPAR	
· · · · · · · · · · · · · · · · · · ·	DB2 UDB for iSeries (OS/400 partition)	
,		
• 2005 IBM Corporation		ND BUSINESS"

IBM.		O som or
G.3 - Too	olbox JDBC in Java Environment	-@server
	JavaScript – JSP/Java Servlet Websphere	
	IBM Toolbox JDBC Driver	
	4	1
	DB2 UDB for iSeries	
• 2005 IBM Corporation		ID BUSINESS"

IBM.		erver <sup>®</sup>
Sample Code I	Disclaimer	
consideration. This sampl therefore, cannot guarante program services for this n WARRANTY OF ANY KIN LIMITED TO, THE IMPLIE PURPOSE, OR NON-INFI EXCLUSION OF IMPLIED APPLY TO YOU. IN NO E DIRECT, INDIRECT, SPE OF THIS MATERIAL INCL BUSINESS INTERRUPTIC INFORMATION HANDLIN OF THE POSSIBILITY OF	ee or imply reliability, serviceab naterial. This material is provid ID, EITHER EXPRESS OR IMI 2D WARRANTIES OF FITNES: RINGEMENT. SOME JURISD WARRANTIES, SO THE ABO EVENT WILL IBM BE LIABLE CIAL OR OTHER CONSEQUE JUDING, WITHOUT LIMITATIC DN, LOSS OF PROGRAMS O IG SYSTEM OR OTHERWISE	IV tested under all conditions. IBM, iility, or function. IBM provides no led "AS IS" WITHOUT PLIED, INCLUDING, BUT NOT S FOR A PARTICULAR NICTIONS DO NOT ALLOW THE DVE EXCLUSIONS MAY NOT TO ANY PARTY FOR ANY ENTIAL DAMAGES FOR ANY USE DN, ANY LOST PROFITS,
• 2005 IBM Corporation	PAGE 77	<b>DIN</b> DEMAND BUSINESS <sup>®</sup>

			eserve
Tradema	rks and Discl	aimers	<u> </u>
8 IBM Corporation 1994-2005.			
References in this document to	IBM products or services do not imply that IBM inte	ends to make them available in every co	untry.
The following terms are tradema	arks of International Business Machines Corporatio	n in the United States, other countries,	or both:
AS/400	e-business on demand	OS/400	
AS/400e	IBM	i5/OS	
eServer	IBM (logo)		
@server	iSeries		
UNIX is a registered trademark of Th SET and the SET Logo are trademar	Pentium are trademarks of Intel Corporation in the United S ne Open Group in the United States and other countries. rks owned by SET Secure Electronic Transaction LLC.	lates, other countries, or both. ion in the United States, other countries, or b states, other countries, or both.	oth.
UNIX is a registered trademark of Th SET and the SET Logo are trademar	Pentium are trademarks of Intel Corporation in the United S ne Open Group in the United States and other countries. Iks owned by SET Secure Electronic Transaction LLC. names may be trademarks or service marks of others.	ion in the United States other countries or b	oth.
UNIX is a registered trademark of Th SET and the SET Logo are trademan Other company, product or service n Information is provided "AS IS" without	Pentium are trademarks of Intel Corporation in the United 5 we Open Group in the United States and other countries. rks owned by SET Secure Electronic Transaction LLC. armes may be trademarks or service marks of others. but warranty of any kind.	ion in the United States, other countries, or b tates, other countries, or both.	we achieved. Actual environmental costs and performance characteri
UNIX is a registered traidemark of TT SET and the SET Logo are trademan Other company, product or service n Information is provided "AS IS" witho All customer examples described are may vary by customer. Information concerning non-IBM pro- products by IBM. Sources for n	Pertium are trademicants of Intel Corporation in the United 5 te Open Group in the United States and other countries. Na owned by SET Secure Electronic Transaction LLC. anses may be trademarks or service marks of others. ut warranty of any kind. presented as illustrations of how those customers have u ducts was obtained from a supplier of these products, publ	ion in the United States, other countries, or b tates, other countries, or both. sed IBM products and the results they may hur ished announcement material, or other public mobility available information. Including ven	
UNIX is a registered trademark of T SET and the SET Logo are trademar Other company, product or service n Information is provided "AS IS" witho All customer examples described are may vary by customer." Information concerning non-IBM pro- products by IBM, Sources for n lested these products and camin supplier of these products.	Pertium are trademicate of Intel Corporation in the United 5 te Open Group in the United States and other countries. Its owned by SET Secure Electronic Transaction LLC, and areas may be trademicts or service marked of others. ut warranty of any kind. It presented as illustrations of how those customers have u ducts was obtained from a supplier of these products, publ or of JBM tist prices and performance numbers are taken fro ot confirm the accuracy of performance. capability, or any i	ion in the United States, other countries, or b tates, other countries, or both. sed IBM products and the results they may h ished announcement material, or other public applicity available information, nuclear formations.	we achieved. Actual environmental costs and performance character y available sources and does not constitute an endorsement of such or announcement and vendor windhive homenases. (Bh has not
UNIX is a registered trademark of Tr SET and the SET Loga are trademark. Other company, product or service in Information is provided "AS IS" with All customer examples described are information concerning non-IBM pro- products by IBM. Sources for in tested these products and camo supplier of those products. At statements regarding IBM future to the specific Statement of Some information addresses anticipor	Pertuin are trademicate of intel Corporation in the United 5 to Open Croop in the United States and other countries amers may be trademicts or service marks of others, sut warranty of any kind. I presented as illustrations of how those customers have u ducks was obtained from a supplier of these products, public on-RMI teprices and performance numbers are taken for on-RMI teprices and performance (applier), and you control to other the second performance (applier), and you direction and intent are subject to change or withdrawal with Direction.	ion in the United States, other countries, or b lates, other countries, or both. sed IBM products and the results they may h bished amouncement material, or other public n publicly available information, including veri ther claims related to non-IBM products. Ou hour notice, and represent goals and objectiv	we achieved. Actual environmental costs and performance characteri y available sources and does not constitute an endorsement of such of announcement and vendor workide homepages. IBM has not estions on the capability of non-BM products should be addressed to
UNIX is a registered frademark of Tr SET and the SET Loga at a trademark Other company, product or service a information is provided "AS IS" which All customer examples described at may vary by customer. Information concerning non-BM pro- products by lossifications and canno supplier of howe products and canno supplier of howe products and canno supplier of howe products. All statements regarding BM sture r loss of the segurids. Salament of Some information addresses anticipi effort to Holy with our customers.	Pertuin are trademicate of Intel Corporation in the United 5 to Open Group in the United States and other countries, ames may be trademarks or service marks of others, ut warranty of any kind. Is presented as illustrations of how those customers have u ducts was obtained from a supplier of these products, publi- on-IBM is prices and performance numbers are taken for to confirm the accuracy of performance, capability, carry direction and intent are subject to change or withdrawal wit Direction.	ion in the United States, other countries, or b lates, other countries, or both. and IBM products and the results they may h ished announcement material, or other public in publicly available information, including ver- ner calms related to non-till products. Our hord announcement material, or other public is a definitive statement of a commitment to g a definitive statement of a commitment to a definitive statement. The actual throughout controlled environment. The actual throughout, and	we achieved. Actual environmental costs and performance characteri y available sources and does not constitute an endorsement of such dor announcements and vendor worldwide homepages. IBM has not estions on the capability of non-IBM products should be addressed to se only. Contact your local IBM office or IBM authorized reseller for th actic levels of performance, function or delivers schedules with respe- cate IBM's current investment and development activities as a good fa d or performance that any urer will experience will vary depending upo
UNUX is a registered trademark of Tr SET and the SET Loga are trademark. Other company, product or service n information is provided 'AS IS' which All customer examples described are may vary by customer. Information concerning one-IBM pro- products by locationer. All statements regarding IBM future is bed of the products. Such como effort to help with our customer Performance is based on measurem considerations such as the aroon o assurable can be dynehming the dynehming the approxi- test of the specific such as the aroon o assurable can be dynehming the dynehming the dynehming or sustainer can be dynehming the dynehming the dynehming on sustainer can be dynehming the dynehming the dynehming the organized the dynehming	Pertium are trademicate of Intel Corporation in the United 5 to Open Group in the United States and other countries, amise may be trademarks or service marks of others, ut warranty of any kind. It is presented as illustrations of how those customers have u duction was obtained from a supplier of these products, public on-IBM territoria and performance, numbers are taken fro on-IBM territoria and performance numbers are taken fro on-IBM territoria and performance numbers are taken fro ut ontim the accuracy of performance, papalitity, or any direction and intent are subject to change or withdrawal with Direction. Such future capanity. Such information is not intended any intensis are only made in IBM product announcements. To future planning in the user's barrant future for direction taken from and projections using standard IBM benchmarks in a not formition the user's barrant.	ion in the United States, other countries, or b tates, other countries, or both. and IBM products and the results they may h is the announcement material, or other public publicy available information, including ven ther claims related to non-IBM products. Qu hout notice, and represent galas and objectiv is a definitive statement of a commitment to ga a definitive statement of a commitment to ga memins equivalent to the radios state here.	we achieved. Actual environmental costs and performance characteri y available sources and does not constitute an endorsement of such dor announcements and vendor worldwide homepages. IBM has not estions on the capability of non-IBM products should be addressed to se only. Contact your local IBM office or IBM authorized reseller for th actic levels of performance, function or delivers schedules with respe- cate IBM's current investment and development activities as a good fa d or performance that any urer will experience will vary depending upo