

Table Of Contents

Notice	ii
Publication Information.....	iii
Table Of Contents	iv
Introduction	1
Tuning Overview	1
What Can Be Done?.....	2
Optimizing Oracle Internals	3
Database Buffer Tuning.....	3
Database Writer Tuning.....	6
Shared Pool Tuning	8
What is the shared pool?.....	8
Monitoring and Tuning the Shared Pool	10
Putting it All In Perspective.....	17
What to Pin	22
The Shared Pool and MTS.....	24
Large Pool Sizing	25
A Matter Of Hashing	26
Monitoring Library and Data Dictionary Caches	30
In Summary	32
Tuning Checkpoints.....	33
Tuning Redo Logs	34
Redo Log Sizing	35
Tuning Rollback Segments.....	38

Tuning Oracle Sorts.....	42
Optimizer Modes	44
Tuning the Multi-part Oracle8 Buffer Cache	45
Use of the Default Pool.....	45
Use of The KEEP Pool	45
Use of the RECYCLE Pool	46
Tuning the Three Pools.....	46
Adding Resources	47
Tuning Tables and Indexes	48
Table Rebuilds.....	48
Rebuilding Indexes	49
Adjusting Index Cost in Oracle8	52
Bitmapped Index Usage*	52
Function Based Indexes.....	55
Reverse Key Indexes	57
Index Organized Tables.....	58
Partitioned Tables and Indexes.....	59
Partitioned Indexes	61
Parallel Query.....	62
Oracle8 Enhanced Parallel DML	62
Managing Multiple Buffer Pools in Oracle8	66
Use of the Default Pool.....	66
Use of The KEEP Pool	66
Use of the RECYCLE Pool	67
Sizing the Default Pool.....	67
Sizing the Keep Pool	67
Sizing the Recycle Pool	68
Tuning the Three Pools.....	68

Creation of a OUTLINE object	70
Altering a OUTLINE.....	71
Dropping an OUTLINE.....	72
Use of the OUTLN_PKG To Manage SQL Stored Outlines.....	72
DROP_UNUSED	72
DROP_BY_CAT	73
UPDATE_BY_CAT	74
Summary.....	75
Using Oracle8i Resource Plans and Groups	76
Creating a Resource Plan.....	76
DBMS_RESOURCE_MANAGER Package.....	82
DBMS_RESOURCE_MANGER Procedure Syntax.....	84
Syntax for the CREATE_PLAN Procedure:.....	84
Syntax for the UPDATE_PLAN Procedure:	84
Syntax for the DELETE_PLAN Procedure:	85
Syntax for the DELETE_PLAN Procedure:	85
Syntax for the CREATE_RESOURCE_GROUP Procedure:.....	85
Syntax for the UPDATE_RESOURCE_GROUP Procedure:	85
Syntax for the DELTE_RESOURCE_GROUP Procedure:.....	86
Syntax for the CREATE_PLAN_DIRECTIVE Procedure:.....	86
Syntax for the UPDATE_PLAN_DIRECTIVE Procedure:	87
Syntax for the DELETE_PLAN_DIRECTIVE Procedure:	88
Syntax for CREATE_PENDING_AREA Procedure:	88
Syntax of the VALIDATE_PENDING_AREA Procedure:	88
Usage Notes For the Validate and Submit Procedures:	89
Syntax of the CLEAR_PENDING_AREA Procedure:	89
Syntax of the SUBMIT_PENDING_AREA Procedure:	90
Syntax of the SET_INITIAL_CONSUMER_GROUP Procedure:.....	90
Syntax of the SWITCH_CONSUMER_GROUP_FOR_SESS Procedure:	90
Syntax of the SWITCH_CONSUMER_GROUP_FOR_USER Procedure:	91
DBMS_RESOURCE_MANAGER_PRIVS Package	91
DBMS_RESOURCE_MANGER_PRIVS Procedure Syntax	91
Syntax for the GRANT_SYSTEM_PRIVILEGE Procedure:.....	91
Syntax for the REVOKE_SYSTEM_PRIVILGE Procedure:.....	92
Syntax of the GRANT_SWITCH_CONSUMER_GROUP Procedure:	92
Usage Notes.....	93
Syntax of the REVOKE_SWITCH_CONSUMER_GROUP Procedure:	93
Usage Notes.....	93
Section Summary.....	94