

Daylight v4.91 Release

27 April 2005



Daylight 4.91

PLATFORMS SUPPORTED	Toolkits	Applications	Servers	Daycart
Solaris - 7, 8, 9; both 32- and 64-bit	X	X	X	X
SGI - Irix 6.5; both 32- and 64-bit	X	X	X	
IA32 - RH ES2.1, ES3,ES4	X	X	X	X
Mac - 10.3 (32-bit)	X	X	X (no Xwin)	
MSWindows - 2000 Professional, XP, 2003 Server	X			X
Oracle - 9iR2, 10g				X
NEW				
AMD64 - RH ES3, Suse8.	X	X(32-bit)	X	X
Solaris 10	X	X	X	X
Fedora	X	X	X	X
REMOVING				
Irix 6.4				
RedHat 7.1-9				
Oracle 8i, 9.0x				

4.91 DayCart Additions

- Oracle 10g (Never Breaks™)
 - Supported across our Solaris, IA32, AMD64, and MS platforms
 - Better integration of CLOBs
 - More parallelization
- Internationalization
 - Support for 120/257 Oracle character sets
 - Supersets of ASCII
 - most European sets and major Unicode versions

4.91 DayCart Additions

- Partitioned tables and indexes
 - Oracle 9i and 10g
 - Range partitioned on one column
 - Improved search speed
- More flexible similarity searches
 - ... `tanimoto(smi, 'c1ccccc1') > 0.9`
 - ... `similarity(smi, 'c1ccccc1', 'TANIMOTO') > 0.9`
 - ... `similarity(smi, 'c1ccccc1', 'c/(a+b+c)') > 0.9`
- Reaction enumeration in Oracle 9iR2 and 10g
 - Ability to generate combinatorial libraries

4.91 DayCart Additions

- Optimizer Package
 - Functions to get functional CPU cost, IO cost, and selectivity for a query (contains, matches, exact)
 - Functions to get index path CPU cost and IO cost
 - Function parameters for ddpackage finfo() and fsetinfo() to manage scaling factors
 - Separate control of function and index execution paths
 - Parameters can be changed between SQL queries but not within a query

4.91 DayCart Additions

- Smi2pmw - precise molecular weights (IUPAC 2001)
- Error queue information exposed
- Memory usage issues resolved
- ddp package specification unwrapped

4.91 Feature/Product Additions

- New Product - Conversion Package (molecules)
 - Command line and DayCart
- Feature Additions - Depiction TK
 - Improved control of layout, hydrogens & stereo display
 - Improvements to smi2gif
- Feature Additions - Clustering Package
 - Spherex - Sphere exclusion
 - Kmodes - Kmodes
 - Near neighbors - tie handling for JP
 - User-defined similarity expressions

4.91 Feature/Product Additions

- Feature Addition - Fingerprint TK
 - dt_fp_similarity(3) / expression(5)
- Feature Addition - Smiles TK
 - dt_smilin_addh(3) / dt_addh(3) / dt_suppressh(3)
 - dt_molgraph(3)
 - Bug fix - Directional (EZ) aromatic bonds in SMILES.
- Feature Addition - Properties Package
 - Tautomer enumeration

4.91 Feature/Product Additions

- Thor/Merlin
 - Thor: Large files under Linux.
 - Merlinserver: generic fingerprint search using `dt_mer_similarselect(3)`