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// dtime.h - DOUBLE TIME FUNCTION DECLARATIONS
//
// MAINTENANCE HISTORY
// DATE          PROGRAMMER AND DETAILS
// 01-09-08 JS   Original
//
//-----

typedef double Dtime_t;
    // Double time data type
static const Dtime_t NULL_DTIME = -(65536.0*65536.0*65536.0*65536.0);
    // Reserved double time value (before the big
    // bang) used to represent an invalid time
Dtime_t PackDtime (int yr, int mo, int dy, int hr, int mi, int se);
    // Pack a double time value from its
    // components.
void UnpackDtime (Dtime_t, int*yr, int*mo, int*dy, int*hr, int*mi, int*se);
    // Unpack a double time value into its
    // components.
Dtime_t DtimeFromSql (const char *sqlTime);
    // Convert an SQL date or timestamp string
    // into the double time format.
char *SqlDateFromDtime (char *sqlDate, Dtime_t dtime);
    // Convert a double time value into an
    // SQL date string. Return sqlDate.
char *SqlTimestampFromDtime (char *sqlTimestamp, Dtime_t dtime);
    // Convert a double time value into an
    // SQL timestamp string. Return sqlTimestamp.
Dtime_t DtimeFromUserData (const char *userData);
    // Convert a user date in DD-MM-YY format into
    // the double time format.
char *UserDataFromDtime (char *userData, Dtime_t dtime);
    // Convert the date components of a double
    // time value into a user date string in
    // DD-MM-YY format. Return userData.
char *UserTimeFromDtime (char *userTime, Dtime_t dtime);
    // Convert the time components of a double
    // time value into a user time string in
    // HH:MM:SS format. Return userTime.

```