TINE Release 4.0 News
(Sept 12, 2008: That was the week that was !)

"What a long, strange trip it's been …."

TINE Kernel 4.0.3

- Kernel Revision now at 4.0.3, what's new (server side):
  - SetPacketMTU() now accepts an MTU (maximum transport unit) up to 64 Kbytes (c only).
  - (some) Stock property calls now run in a separate thread (c only)
    - Calls to the local history subsystem
      - "<property>.HIST" or "<property>.ARCH"
    - Calls which read/write files
      - "LOGFILE", "SRVLOGFILE", "SRVBINFILE"
  - Equipment module calls can run in a separate thread.
    - supply "MT" as part of the access string
    - e.g. "READ|WRITE|MT"
  - An extant but empty "ipnets.csv" security file will now prevent all WRITE access to a running FEC (analogous to "users.csv")
  - Trap redirection to self !

TINE Kernel 4.0.3

- What's new (client side)
  - Can set the socket receive buffer size (default: 64 Kb)
    - TLinkFactory.setSckBufferSize()
    - -Dcln.RECV_BUFFER_SIZE=1000000
  - multiple identical globals links now work properly
  - Can receive MTUs up to 64 Kbytes.
  - TQuery.getAccessLockInformation() method (java) or GetAccessLockInformation() routine (C)
  - Pending context decoration removal logged in fec.log output (see "tip of the week").

Bug-fixes, Embellishments, Works in progress …

- (from KEK): data payload with odd number of bytes embedded in a (packed) set of calls was ignoring trailing information.
- Various globals problems fixed:
  - Same keywords from different contexts
  - Reformatting global values away from data type sent.
  - Multiple identical links to same global value
  - Keywords can now have up to 64 characters
  - A non-official "GLOBALS" server can also send globals (Steve).
  - Acquisition in Labview now works properly after 2nd startup.
- Configuration logging problem fixed regarding users and ip nets access.

Bug-fixes, Embellishments, Works in progress …

- **"Keyword" stock property:**
  - ○ <property>.KEY parsed from description
    - ■ e.g. "[0:1000 V][0:500 ms]<TRC>Transient Recorder voltage vs time" -> returns "TRC".
  - ○ Systematically apply the sysStamp tag to all data sets if a "stamp" is available (e.g. cycle number)
    - ■ Archive with the data sets and browse over range of sysStamps analogous to timestamps
      - ○ Requires monotonically increasing values!
  - ○ tget in scripts.
    - ■ Unix world launches a tineRepeater to handle the requests.
      - ○ Communicates via pipe
      - ○ Starts a listener for read data sets
      - ○ Avoids bothersome queries to ENS as well as synchronous polling of the target server.
    - ■ Nothing there for windows yet!