

# TASK 16 - End Of Day

TASK 15 - Initial Subscription  
Communication

TASK 17 - HDB Concepts

## NECESSARY KNOWLEDGE

- .z.ts and .Q.dpft

### I. AIM

The aim of this task is to have the **RT** save down to **HDB** at the end of day (**EoD**)

### II. INFORMATION

At **EoD** the **RT** saves down to **HDB**. This is triggered by **TP**, this allows synchronization between the **TP** and the **RT**, if the **RT** were to control it's own **EoD** a difference in timing between the **RT** and **TP** may cause duplicate or lost data in the **HDB**.

### III. INSTRUCTIONS

You will need to edit tp.q and rt.q to complete this task. Locate the following line in tp.q:

```
.z.ts:[]  
trigger_eod:[]
```

Within rt.q locate the lines:

```
eod:[d]  
save_t:[dp;d;t]
```

These functions will need to be extended such that when the date changes the **RT** saves down to **HDB** and exits.

### IV. TESTING

To test your code in one session start the tickerplant process:

```
q tp.q -p 5000 -tp_path /tmp
```

In a second session start the feedhandler:

```
q fh.q -p 4000 -tp localhost:5000
```

In a third session start the simulator:

```
q simu.q -fh localhost:4000 -data data/msgs
```

Then start a realtime database session with the following command:

```
q rt.q -p 5001 -tp localhost:5000 -hdb /tmp/tick
```

Return to the simulator session and type the following to create some sample data:

```
do[100;pub[]]
```

Then return to your **TP** session and type:

```
CDATE-:1
```

Finally returning to your **RT** session you should see a similar message to the following:

```
2013.09.10T15:56:23.866 : INFO Subscribe to tickerplant  
q)2013.09.10T16:07:30.241 : INFO Start saving tables.  
2013.09.10T16:07:30.241 : INFO Finished saving tables.
```

To check that the database has saved down start another q session with:

```
q /tmp/tick
```

At the q prompt enter:

```
trade  
  
quote
```

The data you have previously saved should now be available to you.