Investigating hyperfine constants of heavy atoms using MCDHF methods

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LISA academic day

FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

LISA
LASER IONISATION AND SPECTROSCOPY OF ACTINIDES

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```
OLTP test statistics:
    queries performed:
        read:                            716114
        write:                           255715
        other:                           102290
        total:                           1074119
    transactions:                        51139  (852.18 per sec.)
    deadlocks:                           12     (0.20 per sec.)
    read/write requests:                 971829 (16194.50 per sec.)
    other operations:                    102290 (1704.55 per sec.)

General statistics:
    total time:                          60.0098s
    total number of events:              51139
    total time taken by event execution: 479.6358
    response time:
        min:                                2.03ms
        avg:                                9.38ms
        max:                               77.61ms
        approx.  95 percentile:            14.18ms

Threads fairness:
    events (avg/stddev):           6392.3750/15.62
    execution time (avg/stddev):   59.9545/0.00


OLTP test statistics:
    queries performed:
        read:                            747292
        write:                           266853
        other:                           106745
        total:                           1120890
    transactions:                        53367  (889.03 per sec.)
    deadlocks:                           11     (0.18 per sec.)
    read/write requests:                 1014145 (16894.47 per sec.)
    other operations:                    106745 (1778.25 per sec.)

General statistics:
    total time:                          60.0282s
    total number of events:              53367
    total time taken by event execution: 479.6704
    response time:
        min:                                1.93ms
        avg:                                8.99ms
        max:                              101.82ms
        approx.  95 percentile:            13.52ms

Threads fairness:
    events (avg/stddev):           6670.8750/11.55
    execution time (avg/stddev):   59.9588/0.01

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```

This slide has code blocks

```python
import numpy as np

def incmatrix
    = len
    = len
    = None #to become the incidence matrix
    =    .        *  1    int    #dummy variable
```

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