











DAT

Goal:

Overhead testing of LDMS

• Los Alamos

- Controlled scenarios to determine actionable indicators for monitoring
- Applications:
 - CTH. Memory bandwidth bound. Nearest neighbor communication. Test problem designed for a consistent amount of work for each time step.
 - SPARC.
 - Partisn. Run with corespec. All application data structures placed exclusively in MCDRAM. Writes out a wall-clock timestamp to the output file on every cycle (100).

<u>MNSX</u>

WK1	Mode	Group	W/Mon 1	W/Mon 2	Baseline 1	Baseline 2
CTH1 (1024)	Quad cache	31 - 33	1282	1275	1297	1285
CTH2	Quad cache	34 - 36	1298	1319	1326	1339
СТНЗ	Quad cache	37 - 39	1270	1277	1291	1291
CTH4	Quad cache	40 - 42	1452	1456	1465	1439
SPARC1	Quad flat	43 - 45	1355	1359	1346	1347
SPARC2	Quad flat	46 - 48	1354	1360	1347	1348
SPARC3 (2048)	Quad flat	49 - 54	1482	1485	1485	1487
WK2	Mode	Group	W/Mon 1	W/Mon 2	Baseline 1	Baseline 2
CTH1 (1024)	Quad cache	31 - 33	1206	1205	1223	1209
CTH2	Quad cache	34 - 36	1249	1255	1236	1240
СТНЗ	Quad cache	37 - 39	1203	1204	1183	1204
CTH4	Quad cache	40 - 42	1403	1417	1413	1437
			0.47	4007	4000	1033
PARTISN1 (1024)	Quad flat	43 - 45	947	1027	1080	1000
PARTISN1 (1024) PARTISN2	Quad flat Quad flat	43 - 45 46 - 48	947 998	888	978	1015
PARTISN1 (1024) PARTISN2 PARTISN3	Quad flat Quad flat Quad flat	43 - 45 46 - 48 49 - 51	947 998 1216	1027 888 978	978 1000	1015 992
PARTISN1 (1024) PARTISN2 PARTISN3 PARTISN4	Quad flat Quad flat Quad flat Quad flat	43 - 45 46 - 48 49 - 51 52 - 54	947 998 1216 960	888 978 1033	978 1000 1303	1015 992 1025

























