Tripoli-4 benchmarking onjeff-3.3t1 library

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DE LA RECHERCHE À L'INDUSTRIE

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TRIPOLI-4 BENCHMARKING ON JEFF-3.3T1 LIBRARY

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OUTLINE

TRIPOLI-4 benchmarking

- Tripoli-4 library processed on JEFF-3.3T1 at 294 K with GALILÉE-V0
  - NJOY99-364 (Moder, Reconr, Broadr, Thermr)
  - CALENDF 2005 (rév. Fév. 2012)
  - TRIPOLI-4.10 with Probability Tables in URR

(JEFF-3.3T1 also processed with NJOY2012-50)

COMPARISON BETWEEN JEFF-3.2 AND JEFF3.3T1

Ident	Exp. Val. (σ)	JEFF-3.2 (σ)	JEFF-3.3T1 (σ)	Δ =J33-J32	$\Delta/\bar{\sigma}$
HMF-0013_CAS1	0.99900 (150)	0.99600 (11)	0.99606 (11)	6	0.54
HMF-001_CAS1	1.00000 (100)	1.00071 (11)	1.00031 (11)	-40	3.64
HMF-004_CAS1_1D	0.99850 (0)	0.99819 (12)	0.99808 (12)	-11	0.91
HMF-004_CAS1_3D	1.00200 (0)	1.00104 (12)	1.00066 (12)	-38	3.17
HMF-014_CAS1	0.99890 (170)	0.99692 (10)	0.99706 (10)	14	1.4
HMF-015_CAS1	0.99960 (170)	0.99449 (9)	0.99498 (9)	49	5.44
HMF-028_CAS1	1.00000 (160)	1.00530 (11)	1.00415 (11)	-115	10.5
HMF-032_CAS1	1.00000 (160)	1.00607 (9)	1.00511 (9)	-96	10.7
HMF-032_CAS2	1.00000 (270)	1.00661 (9)	1.00556 (9)	-105	11.7
HMF-032_CAS3	1.00000 (170)	1.00174 (9)	1.00096 (9)	-78	8.67
HMF-032_CAS4	1.00000 (170)	1.00223 (9)	1.00189 (9)	-34	3.78
HST-009_CAS1	1.00000 (570)	1.00063 (5)	1.00286 (5)	223	44.6
HST-009_CAS2	1.00000 (570)	1.00102 (5)	1.00306 (5)	204	40.8
HST-009_CAS3	1.00000 (570)	1.00050 (5)	1.00224 (5)	174	34.8
HST-009_CAS4	1.00000 (570)	0.99495 (5)	0.99655 (5)	160	32
HSTH-004_CAS1	1.00000 (650)	0.99446 (9)	0.99602 (9)	156	17.3
HSTH-004_CAS2	1.00000 (710)	0.98933 (9)	0.99072 (9)	139	15.4
HSTH-004_CAS3	1.00000 (780)	0.99571 (9)	0.99676 (9)	105	11.7
HSTH-004_CAS4	1.00000 (910)	0.99786 (9)	0.99842 (9)	56	6.22
HSTH-004_CAS5	1.00000 (1040)	0.99629 (9)	0.99589 (9)	-40	4.44
HSTH-004_CAS6	1.00000 (1170)	0.99290 (9)	0.99193 (9)	-97	10.8

COMPARISON BETWEEN JEFF-3.2 AND JEFF3.3T1

Ident	Exp. Val. (σ)	JEFF-3.2 (σ)	JEFF-3.3T1 (σ)	Δ =J33-J32	$\Delta/\bar{\sigma}$
IMF-001_CAS2	1.?????(???)	1.00124 (13)	1.00041 (13)	-83	6.38
IMF-001_CAS3	1.?????(???)	1.00067 (13)	0.99946 (12)	-121	9.68
IMF-001_CAS4	1.?????(???)	1.00167 (13)	1.00076 (13)	-91	7
IMF-007_d	1.00000 (250)	1.00464 (13)	1.00510 (13)	46	3.54
IMF-007_s	1.00000 (250)	1.00405 (13)	1.00444 (13)	39	3
IMF-010_c1	0.99540 (240)	0.99783 (13)	0.99899 (12)	116	9.28
IMF-012_c1	1.00070 (270)	1.00633 (13)	1.00443 (13)	-190	14.6
LCTH-006_CAS1	1.00000 (200)	1.00161 (12)	1.00166 (5)	5	0.58
LCTH-006_CAS9	1.00000 (200)	1.00116 (12)	1.00134 (5)	18	2.12
LCTH-007_CAS1	1.00000 (200	1.00220 (13)	1.00225 (5)	5	0.55
LCTH-007_CAS4	1.00000 (200	1.00185 (13)	1.00212 (6)	27	2.84
LCTH-007_CAS5	1.00000 (200	1.00214 (5)	1.00253 (5)	39	7.8
LCTH-007_CAS9	1.00000 (200	1.00043 (5)	1.00066 (6)	23	4.18
LCTH-045_CAS1	1.00000 (200	1.01108 (4)	1.01049 (4)	-59	14.8
MCTH-003_CAS3	1.00000 (520)	1.00355 (4)	1.00326 (5)	-29	6.44
MCTH-003_CAS6	1.00000 (200)	0.99948 (5)	0.99711 (6)	-237	43.1
MCTH-004_CAS1	1.00000 (460)	0.99651 (4)	0.99557 (6)	-94	18.8
MCTH-004_CAS11	1.00000 (510)	0.99702 (4)	0.99558 (5)	-144	32
MSTH-002_CAS58	1.00000 (510)	0.99826 (8)	0.99648 (10)	-178	19.8
MMF-001_CAS1	0.99800 (80)	0.99907 (10)	0.99882 (10)	-25	2.5
MMF-009_CAS1	0.99770 (60)	1.00002 (10)	0.99959 (10)	-43	4.3
PMF-001_CAS1	1.00000 (200)	1.00042 (12)	0.99953 (12)	-89	7.42
PMF-002_CAS1	1.00000 (200)	1.00273 (12)	1.00124 (12)	-149	12.4
PMF-010_CAS1	1.00000 (180)	1.00089 (12)	0.99977 (12)	-112	9.33
PMF-016_CAS1	0.99740 (420)	1.01934 (10)	1.02095 (10)	161	16.1
PMF-016_CAS2	1.00000 (380)	1.00856 (10)	1.00998 (10)	142	14.2
PMF-016_CAS3	1.00000 (330)	1.00668 (10)	1.00784 (10)	116	11.6
PMF-016_CAS4	1.00000 (300)	1.00605 (10)	1.00750 (10)	145	14.5
PMF-016_CAS5	1.00000 (340)	1.00586 (10)	1.00720 (10)	134	13.4
PMF-016_CAS6	1.00000 (320)	1.00881 (10)	1.00983 (10)	102	10.2
PMF-022_CAS1	1.00000 (210)	0.99905 (9)	0.99802 (9)	-103	11.4

COMPARISON BETWEEN JEFF-3.2 AND JEFF3.3T1

Ident	Exp. Val. (σ)	JEFF32 (σ)	JEFF33T1 (σ)	Δ =J33-J32	$\Delta/\bar{\sigma}$
PMF-023_CAS1_detail	1.00000 (20)	0.99941 (12)	0.99916 (12)	-25	2.08
PMF-023_CAS1_simple	1.00000 (20)	0.99932 (12)	0.99952 (12)	20	1.67
PMF-024_CAS1_detail	1.00000 (20)	1.00082 (12)	1.00048 (12)	-34	2.83
PMF-024_CAS1_simple	1.00000 (20)	1.00053 (12)	1.00072 (12)	19	1.58
PMF-029_CAS1	1.00000 (200)	0.99679 (9)	0.99558 (9)	-121	13.4
PMF-037_CAS1	1.00000 (440)	1.00066 (10)	1.00246 (10)	180	18
PMF-037_CAS10	1.00000 (340)	0.99723 (10)	0.99907 (10)	184	18.4
PMF-037_CAS11	1.00000 (380)	0.99423 (10)	0.99649 (10)	226	22.6
PMF-037_CAS12	1.00000 (400)	0.99942 (10)	1.00152 (10)	210	21
PMF-037_CAS13	1.00000 (300)	0.99405 (10)	0.99568 (10)	163	16.3
PMF-037_CAS14	1.00000 (370)	1.00208 (10)	1.00396 (10)	188	18.8
PMF-037_CAS15	1.00000 (330)	0.99507 (10)	0.99678 (10)	171	17.1
PMF-037_CAS16	1.00000 (390)	0.99564 (10)	0.99740 (10)	176	17.6
PMF-037_CAS2	1.00000 (440)	0.99943 (10)	1.00152 (10)	209	20.9
PMF-037_CAS3	1.00000 (430)	0.99789 (10)	0.99970 (10)	181	18.1
PMF-037_CAS4	1.00000 (430)	1.00121 (10)	1.00308 (10)	187	18.7
PMF-037_CAS5	1.00000 (370)	0.99802 (10)	1.00014 (10)	212	21.2
PMF-037_CAS6	1.00000 (400)	0.99956 (10)	1.00181 (10)	225	22.5
PMF-037_CAS7	1.00000 (380)	0.99852 (10)	1.00042 (10)	190	19
PMF-037_CAS8	1.00000 (330)	0.99878 (10)	1.00091 (10)	213	21.3
PMF-037_CAS9	1.00000 (370)	0.99783 (10)	0.99964 (10)	181	18.1

COMPARISON BETWEEN JEFF-3.2 AND JEFF3.3T1

Ident	Exp. Val. (σ)	JEFF32 (σ)	JEFF33T1 (σ)	Δ =J33-J32	$\Delta/\bar{\sigma}$
PSTH-001_CAS1	1.00000 (500)	1.00178 (11)	1.00101 (11)	-77	7
PSTH-001_CAS2	1.00000 (500)	1.00354 (11)	1.00287 (11)	-67	6.09
PSTH-001_CAS3	1.00000 (500)	1.00651 (11)	1.00588 (11)	-63	5.73
PSTH-001_CAS4	1.00000 (500)	1.00047 (11)	1.00046 (11)	-1	0.0909
PSTH-001_CAS5	1.00000 (500)	1.00489 (11)	1.00416 (11)	-73	6.64
PSTH-001_CAS6	1.00000 (500)	1.00716 (11)	1.00788 (11)	72	6.55
PSTH-004_CAS11	1.00000 (470)	0.99654 (11)	0.99592 (11)	-62	5.64
PSTH-004_CAS2	1.00000 (470)	0.99536 (11)	0.99439 (11)	-97	8.82
PSTH-004_CAS3	1.00000 (470)	0.99719 (11)	0.99640 (11)	-79	7.18
PSTH-004_CAS5	1.00000 (470)	0.99616 (11)	0.99563 (11)	-53	4.82
PSTH-004_CAS6	1.00000 (470)	0.99794 (11)	0.99720 (11)	-74	6.73
PSTH-004_CAS8	1.00000 (470)	0.99789 (11)	0.99695 (11)	-94	8.55
PSTH-016_CAS1	0.99800 (430)	1.00296 (9)	1.00311 (9)	15	1.67
PSTH-016_CAS2	0.99800 (430)	1.00307 (9)	1.00313 (9)	6	0.667
PSTH-016_CAS3	0.99800 (430)	1.00376 (9)	1.00394 (9)	18	2
PSTH-016_CAS4	0.99800 (430)	1.00375 (9)	1.00374 (9)	-1	0.111
PSTH-016_CAS5	0.99800 (430)	1.00200 (9)	1.00139 (9)	-61	6.78
PSTH-016_CAS6	0.99800 (430)	1.00224 (9)	1.00210 (9)	-14	1.56
PSTH-016_CAS7	0.99800 (430)	1.00256 (9)	1.00243 (9)	-13	1.44