

## APPENDICES

Table 1: Descriptive analysis of the sequence types. Stars for *c* indicate the attainment of Pareto Principle (PP)

<i>Application</i>	<i>ST</i>	<i>DST</i>	<i>DistST</i>	<i>c</i>
Sample_1	34	3	22	1*
Sample_2	86	30	2	1
Sample_3	16	0	16	NA
Sample_4	5	0	0	NA
Sample_5	51	40	0	9*
Sample_6	38	0	25	NA
Sample_7	30	3	13	1*
Sample_8	9	0	0	NA
Sample_9	31	0	29	NA
Sample_10	38	0	38	NA
Sample_11	1	0	0	NA
Sample_12	76	17	49	1*
Sample_13	106	45	94	11718*
Sample_14	9	0	9	NA
Sample_15	17	0	17	NA
Sample_16	11	5	0	1*
Sample_17	80	25	76	1
Sample_18	17	8	0	1
Sample_19	44	0	0	NA
Sample_20	5	0	0	NA
Sample_21	50	0	46	NA
Sample_22	175	148	165	1
Sample_23	220	168	0	39*
Sample_24	2	0	0	NA
Sample_25	3	0	0	NA
Sample_26	35828	16418	27205	7*
Sample_27	54	0	51	NA
Sample_28	8	0	0	NA
Sample_29	63	17	0	1*
Sample_30	31	0	30	NA
Sample_31	125	67	105	1
Sample_32	34	4	0	1*
Sample_33	14	2	0	1*
Sample_34	169	116	90	1
Sample_35	305	263	206	1
Sample_36	48	0	48	NA
Sample_37	166	128	0	46*
Sample_38	53	1	0	1*
Sample_39	67	4	65	1*
Sample_40	4	0	0	NA

Sample_41	0	0	0	NA
Sample_42	4	0	0	NA
Sample_43	3	0	0	NA
Sample_44	18	2	17	1*
Sample_45	217	152	200	1
Sample_46	20	3	10	1*
Sample_47	783	687	768	1
Sample_48	14	0	0	NA
Sample_49	30	0	30	NA

Table 2: Best topologies for balance splitting

$c=2$				$c=3$				$c=4$			
$k$	$l$	$m$	$h$	$k$	$l$	$m$	$h$	$k$	$l$	$m$	$h$
2	1	0.7	3	2	1	0.9	1	2	0.6	0.9	9
	1	0.9	1		NA	NA	NA		0.8	0.9	1
	1	0.7	1		0.6	0.9	1		0.1	0.1	1
	1	0.7	1		0.1	0.1	1		0.1	0.1	1
	0.9	0.9	3		0.1	0.1	1		0.9	0.5	1
	0.9	0.7	1		0.8	0.8	1		0.9	0.8	1
	1	0.8	1		0.9	0.5	1				
3	0.7	0.8	8	3	0.1	0.1	1	3	0.8	0.9	1
	1	0.8	1		0.8	0.9	1		0.9	0.8	1
	0.7	0.9	1		0.9	0.9	1		0.	0.1	1
	1	0.7	1		0.1	0.1	1		0.	0.1	1
	0.1	1	4		0.1	0.1	1		0.5	0.9	1
					0.1	1	1		0.9	0.9	1
					1	0.4	1				
4	0.1	0.1	1	4	0.9	0.8	1	4	0.1	0.1	1
	1	0.9	4		0.8	0.8	1		0.7	0.9	1
	0.7	0.8	1		0.1	0.1	1		0.9	0.6	1
	1	0.8	4		0.1	0.1	1		0.1	0.1	1
	0.1	0.1	1		0.1	1	6		0.9	0.7	1
					0.8	0.8	1				
5	0.8	0.9	1	5	0.9	0.9	1	5	0.1	0.1	1
	0.9	0.9	1		0.3	0.9	1		0.9	0.7	1
	0.1	0.1	1		NA	NA	NA		0.9	0.9	1
	0.5	0.9	3		0.1	0.1	1		0.1	0.1	1
	0.1	1	1		0.9	0.9	2		1	0.4	1
					0.9	0.5	1				1

Figure 1: Best topologies with balanced splitting