

RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple

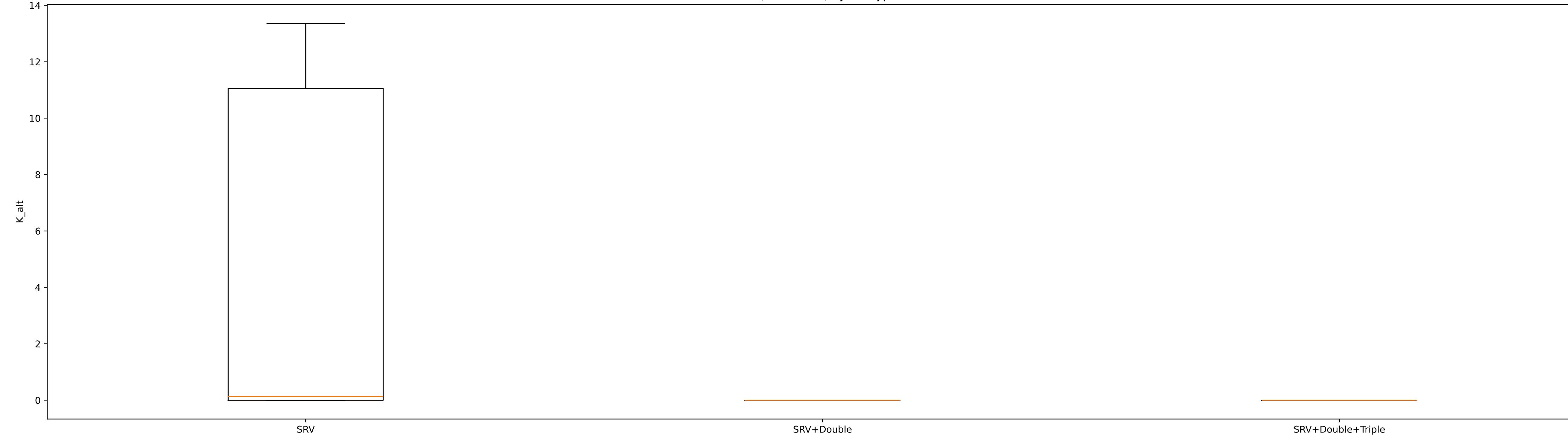
Includes:

- Run-type summary
- Boxplots: K, p-values, 2H/3H
- Full omega/SRV/multihit tables (column-paged)

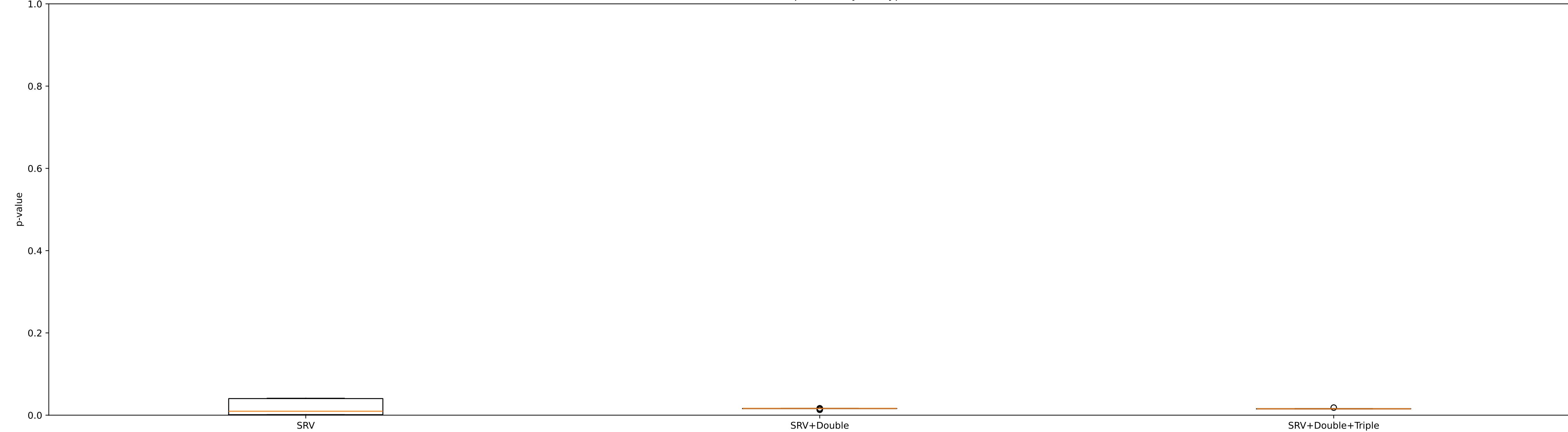
Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_medi an	omega_test_medi an	warnings_count	2H_reference_m edian	2H_test_median
0.0096	0.0012	0.0411	0.13	0.0	13.36	0.208	1.1888	8	nan	nan
0.0163	0.013	0.0167	0.0	0.0	0.0	0.208	1.1888	9	0.0	0.2501
0.0155	0.0155	0.0184	0.0	0.0	0.0	0.208	1.1888	9	0.0	0.25

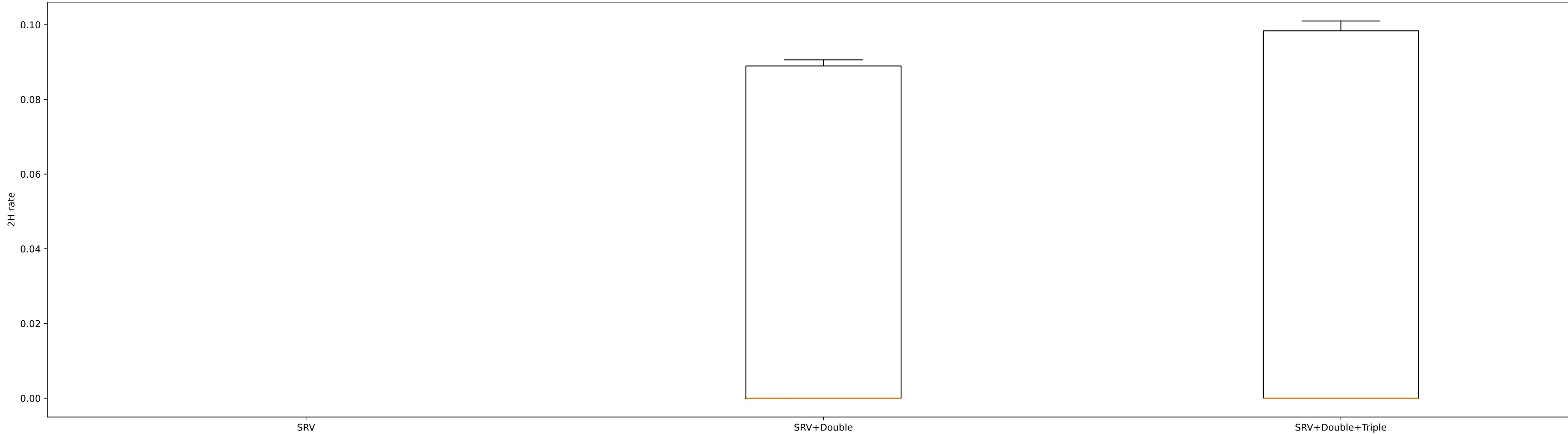
K (alternative) by run type



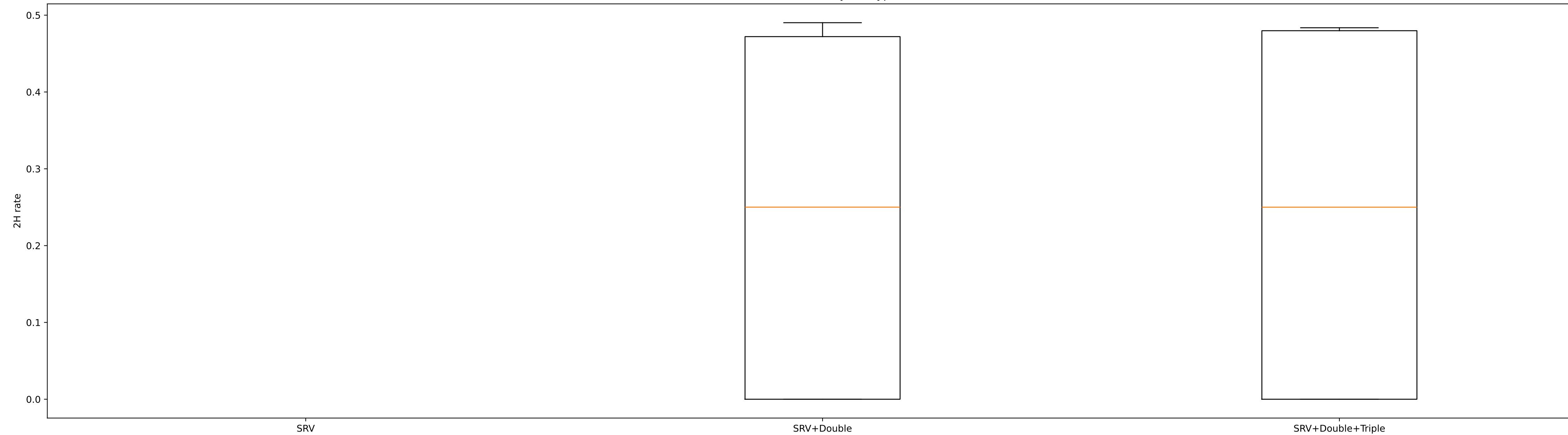
RELAX LRT p-values by run type



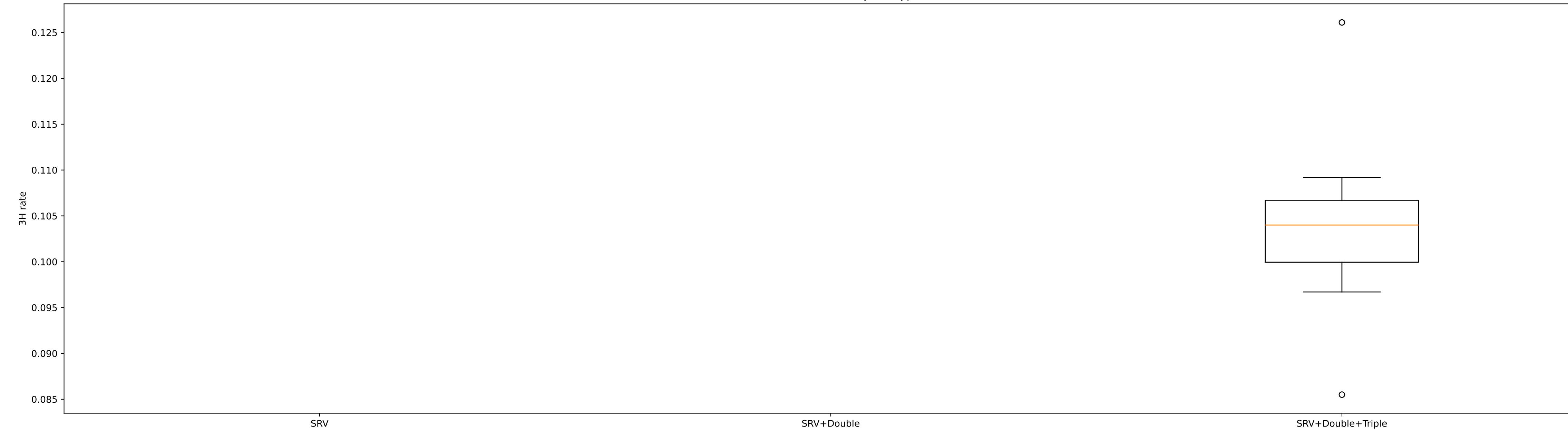
2H rates (reference) by run type



2H rates (test) by run type



3H rates (reference) by run type



3H rates (test) by run type



Replicate-level summary — SRV (page 1/1)

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test
	1	0.0012	10.9	0.208	1.1888
	2	0.0012	11.11	0.208	1.1888
	3	0.0411	0.0	0.208	1.1888
	4	0.0094	0.0	0.208	1.1888
	5	0.0407	0.0	0.208	1.1888
	6	0.0406	0.0	0.208	1.1888
	7	0.0395	0.26	0.208	1.1888
	8	0.0012	13.36	0.208	1.1888
	9	0.0097	0.0	0.208	1.1888
	10	0.0012	11.17	0.208	1.1888

Replicate-level summary — SRV+Double (page 1/1)

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.0163	0.0	0.208	1.1888
	2	0.0162	0.0	0.208	1.1888
	3	0.0162	0.0	0.208	1.1888
	4	0.0155	0.0	0.208	1.1888
	5	0.0163	0.0	0.208	1.1888
	6	0.0163	0.0	0.208	1.1888
	7	0.0163	0.0	0.208	1.1888
	8	0.013	0.0	0.208	1.1888
	9	0.0165	0.0	0.208	1.1888
	10	0.0167	0.0	0.208	1.1888

Replicate-level summary — SRV+Double+Triple (page 1/1)

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.0155	0.0	0.208	1.1888
	2	0.0184	0.0	0.208	1.1888
	3	0.0155	0.0	0.2081	1.1936
	4	0.0155	0.0	0.2081	1.1895
	5	0.0155	0.0	0.208	1.1888
	6	0.0155	0.0	0.208	1.1888
	7	0.0156	0.0	0.208	1.1856
	8	0.0156	0.0	0.208	1.1888
	9	0.0155	0.0	0.208	1.1888
	10	0.0155	0.0	0.208	1.1888

	test	Neutral evolution	1.0	86.528	SRV+Double
	test	Neutral evolution	1.0	13.462	SRV+Double
	test	Neutral evolution	1.0	0.01	SRV+Double
reference		Diversifying selection	278.586	0.01	SRV+Double
reference		Negative selection	83.453	SRV+Double	
reference		Negative selection	0.61	16.537	SRV+Double
test		Diversifying selection	278.586	0.01	SRV+Double
test		Negative selection	0.129	83.453	SRV+Double
test		Negative selection	0.61	16.537	SRV+Double
reference		Negative selection	0.122	28.363	SRV+Double
reference		Negative selection	0.166	66.037	SRV+Double
reference		Neutral evolution	1.0	5.6	SRV+Double
test		Negative selection	0.122	28.363	SRV+Double
test		Negative selection	0.166	66.037	SRV+Double
test		Neutral evolution	1.0	66.037	SRV+Double
test		Neutral evolution	1.0	28.363	SRV+Double
test		Neutral evolution	1.0	5.6	SRV+Double
test		Neutral evolution	1.0	5.6	SRV+Double
reference		Negative selection	0.108	32.082	SRV+Double
reference		Negative selection	0.181	61.339	SRV+Double
reference		Neutral evolution	1.0	6.578	SRV+Double
test		Negative selection	0.108	32.082	SRV+Double
test		Negative selection	0.181	61.339	SRV+Double
test		Neutral evolution	1.0	6.578	SRV+Double
reference		Negative selection	0.0	13.152	SRV+Double
reference		Negative selection	0.185	82.068	SRV+Double
reference		Neutral evolution	1.0	4.78	SRV+Double
test		Negative selection	0.0	13.152	SRV+Double
test		Negative selection	0.185	82.068	SRV+Double
test		Neutral evolution	1.0	82.068	SRV+Double
test		Neutral evolution	1.0	13.152	SRV+Double
test		Neutral evolution	1.0	4.78	SRV+Double
test		Neutral evolution	1.0	4.78	SRV+Double
reference		Negative selection	0.0	17.027	SRV+Double
reference		Negative selection	0.198	77.182	SRV+Double
reference		Neutral evolution	1.0	5.791	SRV+Double
test		Negative selection	0.0	17.027	SRV+Double
test		Negative selection	0.198	77.182	SRV+Double
test		Neutral evolution	1.0	5.791	SRV+Double
reference		Negative selection	0.0	22.961	SRV+Double
reference		Negative selection	0.219	73.159	SRV+Double
reference		Neutral evolution	1.0	3.88	SRV+Double
test		Negative selection	0.0	22.961	SRV+Double
test		Negative selection	0.219	73.159	SRV+Double
test		Neutral evolution	1.0	73.159	SRV+Double
test		Neutral evolution	1.0	22.961	SRV+Double
test		Neutral evolution	1.0	3.88	SRV+Double
test		Neutral evolution	1.0	3.88	SRV+Double
reference		Negative selection	12.0	28.33	SRV+Double
reference		Negative selection	0.245	67.01	SRV+Double

			0.57	22.12	SRV
	3		2.154	27.55	SRV
	1		0.382	5.624	SRV
	2		0.521	60.713	SRV
	3		1.967	33.663	SRV
	1		0.333	6.16	SRV
	2		0.594	67.072	SRV
	3		2.171	26.768	SRV
	1		0.428	46.637	SRV
	2		0.982	28.993	SRV
	3		2.116	24.37	SRV
	1		0.538	42.685	SRV
	2		0.579	30.283	SRV
	3		2.202	27.031	SRV
	1		0.519	43.084	SRV
	2		0.6	28.096	SRV
	3		2.109	28.819	SRV
	1		0.54	29.008	SRV
	2		0.56	43.574	SRV
	3		2.186	27.418	SRV
	1		0.552	61.803	SRV
	2		0.669	9.686	SRV
	3		2.083	28.511	SRV
	1		0.543	31.168	SRV
	2		0.559	41.434	SRV
	3		2.187	27.398	SRV
	1		0.571	43.546	SRV
	2		0.572	28.39	SRV
	3		2.099	28.064	SRV
	1		0.557	45.291	SRV
	2		0.687	32.492	SRV
	3		2.36	22.217	SRV
	1		0.032	20.639	SRV
	2		1.092	73.123	SRV
	3		3.127	6.238	SRV
	1		0.495	51.718	SRV
	2		0.542	14.562	SRV
	3		1.972	33.72	SRV
	1		0.52	11.641	SRV
	2		0.557	59.559	SRV
	3		2.11	28.8	SRV
	1		0.555	28.414	SRV
	2		0.557	44.67	SRV
	3		2.205	26.916	SRV
	1		0.527	50.443	SRV
	2		0.571	19.45	SRV
	3		2.07	30.106	SRV
	1		0.492	53.589	SRV
	2		0.555	12.233	SRV
	3		1.951	20.100	SRV

	test		2H	0.2502	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0996	SRV+Double+Triple	
	reference		3H	0.1039	SRV+Double+Triple	
Multihit (2H/3H) rates (all) (cols 1-6/6)						
	test		2H	0.4806	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.101	SRV+Double+Triple	
	reference		2H	0.0236	SRV+Double+Triple	
	reference		3H	0.0855	SRV+Double+Triple	
	reference		3H	0.1261	SRV+Double+Triple	
	test		2H	0.2486	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0967	SRV+Double+Triple	
	reference		3H	0.1073	SRV+Double+Triple	
	test		2H	0.479	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0997	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.1092	SRV+Double+Triple	
	test		2H	0.2504	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0993	SRV+Double+Triple	
	reference		3H	0.104	SRV+Double+Triple	
	test		2H	0.4811	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0985	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.107	SRV+Double+Triple	
	reference		3H	0.1061	SRV+Double+Triple	
	test		2H	0.2498	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.1001	SRV+Double+Triple	
	reference		3H	0.103	SRV+Double+Triple	
	test		2H	0.4798	SRV+Double+Triple	
	test		2H	0.0	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0983	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.1067	SRV+Double+Triple	
	reference		3H	0.1061	SRV+Double+Triple	
	test		2H	0.2501	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	