

RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple

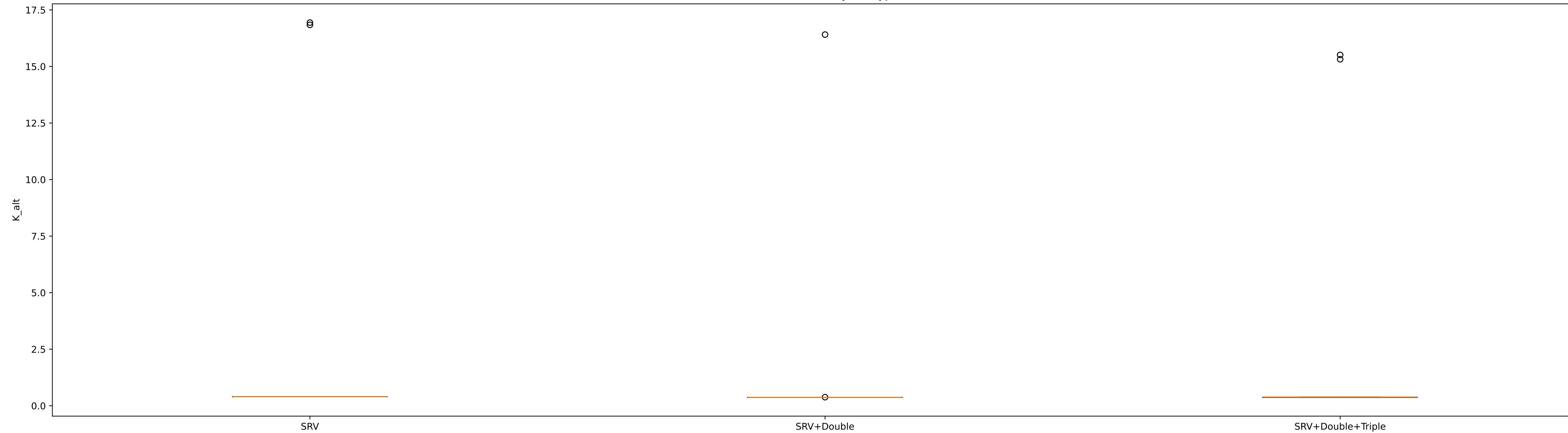
Includes:

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

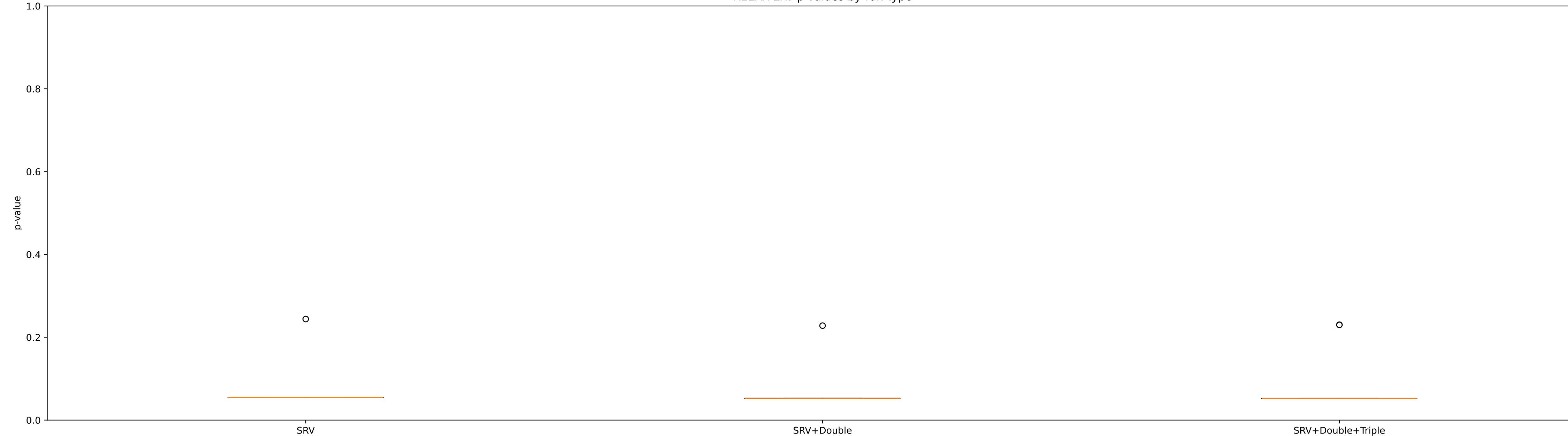
Run-type summary statistics

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
0.0545	0.0544	0.244	0.4	0.4	16.94	0.2112	0.5355	10	nan	nan
0.0526	0.0524	0.2281	0.37	0.37	16.41	0.2112	0.5355	10	0.0	0.1672
0.0524	0.0524	0.2303	0.38	0.37	15.51	0.2112	0.5355	10	0.0	0.1673

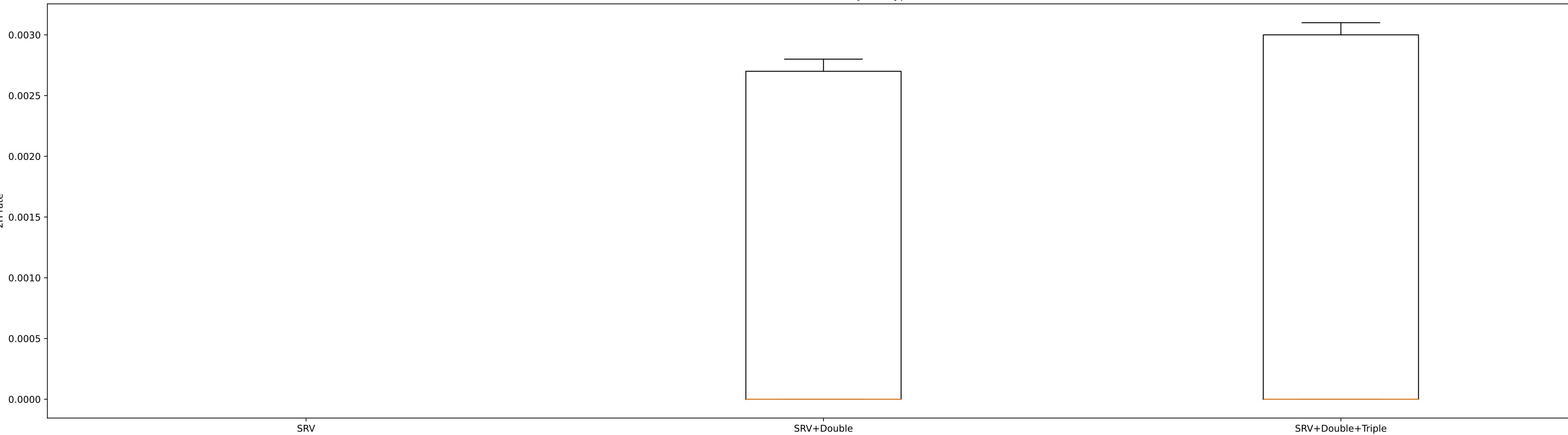
K (alternative) by run type



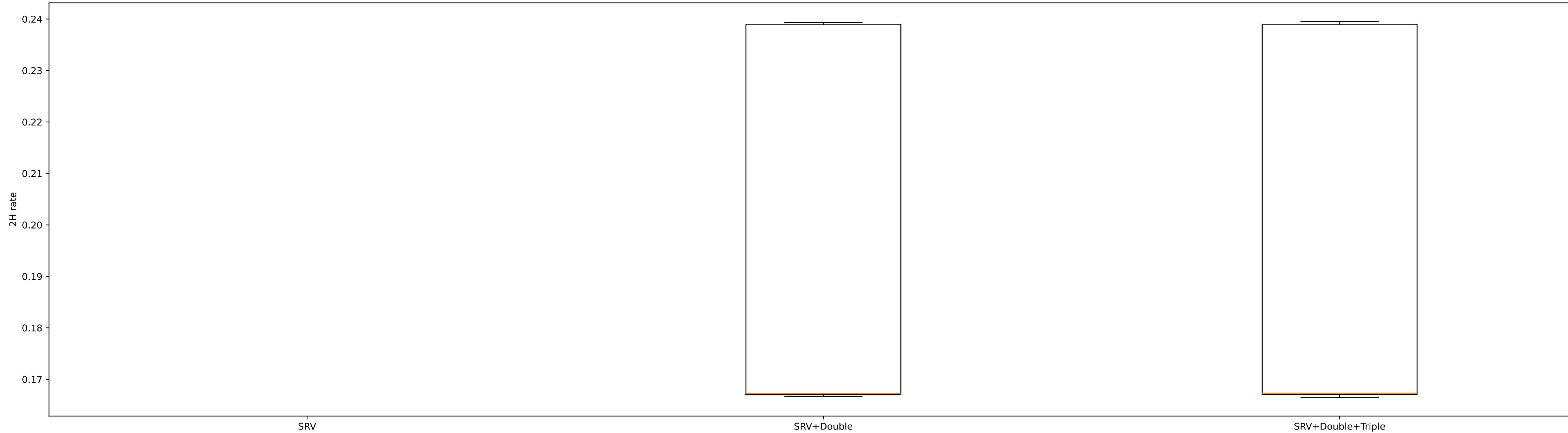
RELAX LRT p-values by run type



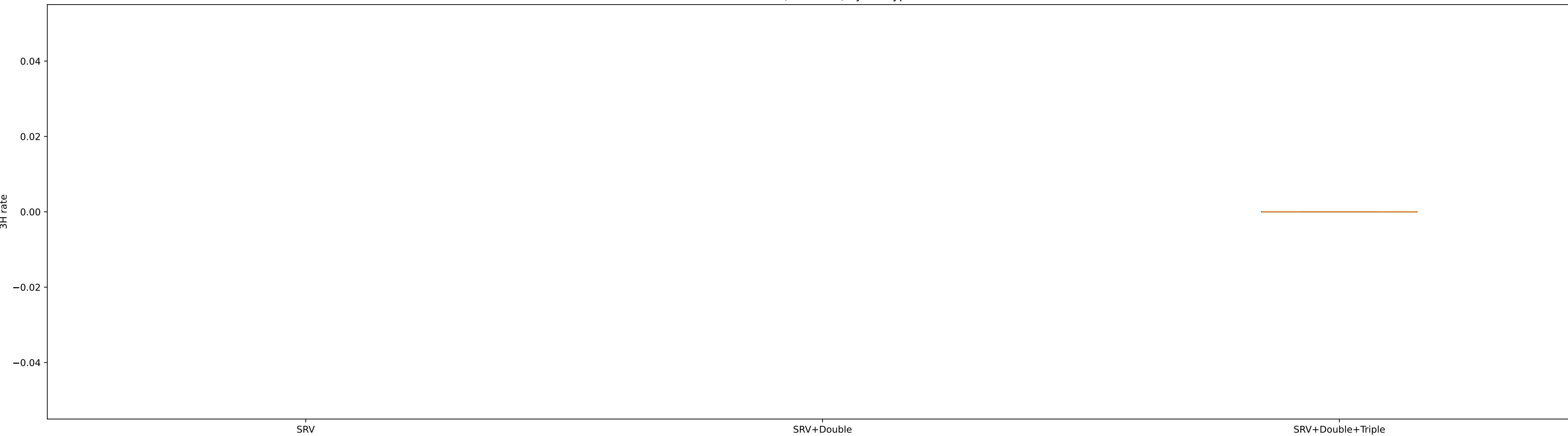
2H rates (reference) by run type



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_re ference	global_dNdS_te st
	1	0.0544	0.4	0.2112	0.5355
	2	0.0546	16.84	0.2112	0.5355
	3	0.0545	0.4	0.2112	0.5355
	4	0.0545	0.4	0.2112	0.5355
	5	0.244	16.94	0.2112	0.5355
	6	0.0545	0.4	0.2112	0.5355
	7	0.0545	0.4	0.2112	0.5355
	8	0.0544	0.4	0.2112	0.5355
	9	0.0544	0.4	0.2112	0.5355
	10	0.0545	0.4	0.2112	0.5355

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

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.2281	16.41	0.2112	0.5355
	2	0.0525	0.37	0.2112	0.5355
	3	0.0527	0.37	0.2112	0.5355
	4	0.0526	0.37	0.2112	0.5355
	5	0.0525	0.37	0.2112	0.5355
	6	0.0525	0.37	0.2112	0.5355
	7	0.0524	0.37	0.2112	0.5355
	8	0.0524	0.38	0.2112	0.5355
	9	0.0526	0.37	0.2112	0.5355
	10	0.0526	0.37	0.2112	0.5355

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

	replicate	p_value	K_alt	global_dNdS_re ference	global_dNdS_te st
	1	0.0524	0.38	0.2112	0.5355
	2	0.0524	0.37	0.2112	0.5355
	3	0.0524	0.38	0.2112	0.5355
	4	0.2299	15.51	0.2112	0.5355
	5	0.2303	15.32	0.2112	0.5355
	6	0.0524	0.38	0.2112	0.5355
	7	0.0524	0.37	0.2112	0.5355
	8	0.0525	0.37	0.2112	0.5355
	9	0.0524	0.38	0.2112	0.5355
	10	0.0524	0.38	0.2112	0.5355

test		Negative selection	0.515	27.883	SRV+Double
test		Negative selection	0.571	72.117	SRV+Double
test		Negative selection	0.17	27.883	SRV+Double
test		Negative selection, Diversifying selection	0.223	72.117	SRV+Double
reference		Ω-class distributions (all) (cols 1-7/7)			SRV+Double
reference		Negative selection	0.21	18.306	SRV+Double
reference		Negative selection, Diversifying selection	0.236	81.694	SRV+Double
test		Negative selection, Diversifying selection	1.08	0.0	SRV+Double
test		Negative selection	0.21	18.306	SRV+Double
test		Negative selection, Diversifying selection	0.236	81.694	SRV+Double
reference		Negative selection, Diversifying selection	1.03	0.0	SRV+Double
reference		Negative selection	0.177	20.546	SRV+Double
reference		Negative selection, Diversifying selection	0.217	79.454	SRV+Double
test		Negative selection, Diversifying selection	1.011	0.0	SRV+Double
test		Diversifying selection	1.03	0.0	SRV+Double
test		Negative selection	0.524	20.546	SRV+Double
test		Negative selection	0.564	79.454	SRV+Double
test		Negative selection	0.177	20.546	SRV+Double
test		Negative selection, Diversifying selection	0.217	79.454	SRV+Double
reference		Negative selection, Diversifying selection	1.191	0.0	SRV+Double
reference		Negative selection	0.165	0.0	SRV+Double
reference		Negative selection, Diversifying selection	0.231	100.0	SRV+Double
test		Negative selection, Diversifying selection	1.191	0.0	SRV+Double
test		Negative selection	0.165	0.0	SRV+Double
test		Negative selection, Diversifying selection	0.231	100.0	SRV+Double
reference		Negative selection, Diversifying selection	1.814	0.0	SRV+Double
reference		Negative selection	0.174	23.812	SRV+Double
reference		Negative selection, Diversifying selection	0.219	76.188	SRV+Double
test		Negative selection, Diversifying selection	1.249	0.0	SRV+Double
test		Diversifying selection	1.814	0.0	SRV+Double
test		Negative selection	0.521	23.812	SRV+Double
test		Negative selection	0.568	76.188	SRV+Double
test		Negative selection	0.174	23.812	SRV+Double
test		Negative selection, Diversifying selection	0.219	76.188	SRV+Double
reference		Negative selection, Diversifying selection	1.442	0.0	SRV+Double
reference		Negative selection	0.22	15.322	SRV+Double
reference		Negative selection, Diversifying selection	0.233	84.678	SRV+Double
test		Negative selection, Diversifying selection	1.442	0.0	SRV+Double
test		Negative selection	0.22	15.322	SRV+Double
test		Negative selection, Diversifying selection	0.233	84.678	SRV+Double
reference		Negative selection, Diversifying selection	3.611	0.0	SRV+Double
reference		Negative selection	0.11	0.0	SRV+Double
reference		Negative selection, Diversifying selection	0.208	100.0	SRV+Double
test		Negative selection, Diversifying selection	1.618	0.0	SRV+Double
test		Diversifying selection	3.611	0.0	SRV+Double
test		Negative selection	0.437	0.0	SRV+Double
test		Negative selection	0.556	100.0	SRV+Double
test		Negative selection	0.11	0.0	SRV+Double
test		Negative selection, Diversifying selection	0.208	100.0	SRV+Double
reference		Negative selection, Diversifying selection	2.542	0.0	SRV+Double

SRV rate classes (all) (cols 1-6/6)

	class_id	syn_rate	proportion_per cent	run_type	
SRV	1	0.0	50.406	SRV	
	2	2.016	20.348	SRV	
	3	2.016	29.246	SRV	
	1	0.0	49.329	SRV	
	2	0.0	1.079	SRV	
	3	2.016	49.592	SRV	
	1	0.0	15.79	SRV	
	2	0.0	34.614	SRV	
	3	2.016	49.596	SRV	
SRV	1	0.0	14.194	SRV	
	2	0.0	36.21	SRV	
	3	2.016	49.596	SRV	
	1	0.0	13.197	SRV	
	2	0.0	37.202	SRV	
	3	2.016	49.6	SRV	
	1	0.0	16.811	SRV	
	2	0.0	33.593	SRV	
	3	2.016	49.596	SRV	
SRV	1	0.0	12.174	SRV	
	2	0.0	38.229	SRV	
	3	2.016	49.597	SRV	
	1	0.0	14.661	SRV	
	2	0.0	35.741	SRV	
	3	2.016	49.598	SRV	
	1	0.0	12.358	SRV	
	2	0.0	38.044	SRV	
	3	2.016	49.598	SRV	
SRV	1	0.0	15.481	SRV	
	2	0.0	34.923	SRV	
	3	2.016	49.597	SRV	

	reference		2H	0.0	SRV+Double	
	test		2H	0.1671	SRV+Double	
	reference		2H	0.0	SRV+Double	
	test		2H	0.2391	SRV+Double	
	test		2H	0.1668	SRV+Double	
	reference		2H	0.0031	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.1669	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.2391	SRV+Double+Triple	
	test		2H	0.1672	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.003	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.167	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.239	SRV+Double+Triple	
	test		2H	0.1675	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.003	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.1669	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.239	SRV+Double+Triple	
	test		2H	0.1673	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0031	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.1732	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.2385	SRV+Double+Triple	
	test		2H	0.1672	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	
	reference		2H	0.003	SRV+Double+Triple	
	reference		2H	0.0	SRV+Double+Triple	
	reference		3H	0.0	SRV+Double+Triple	
	test		2H	0.173	SRV+Double+Triple	
	test		3H	0.0	SRV+Double+Triple	