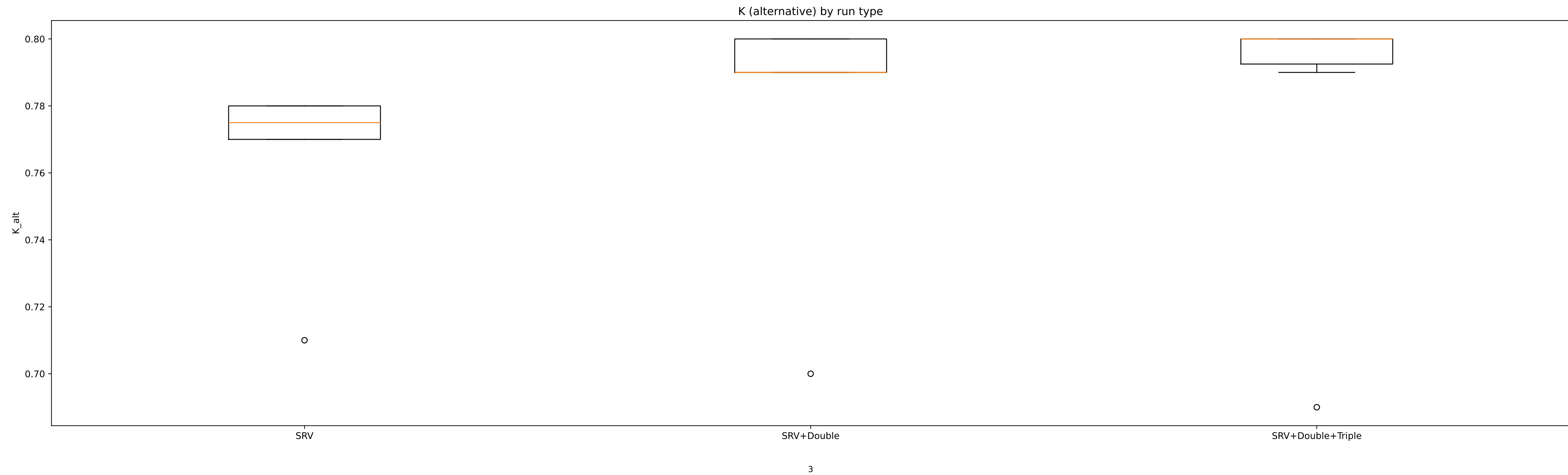# RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple
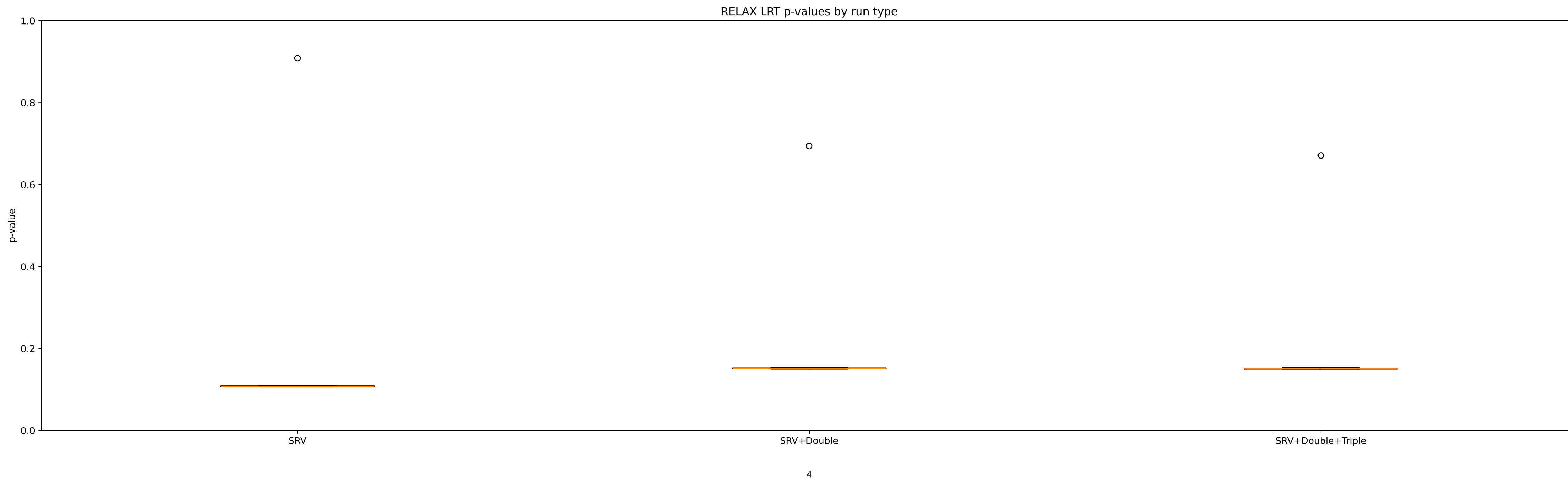
Includes:
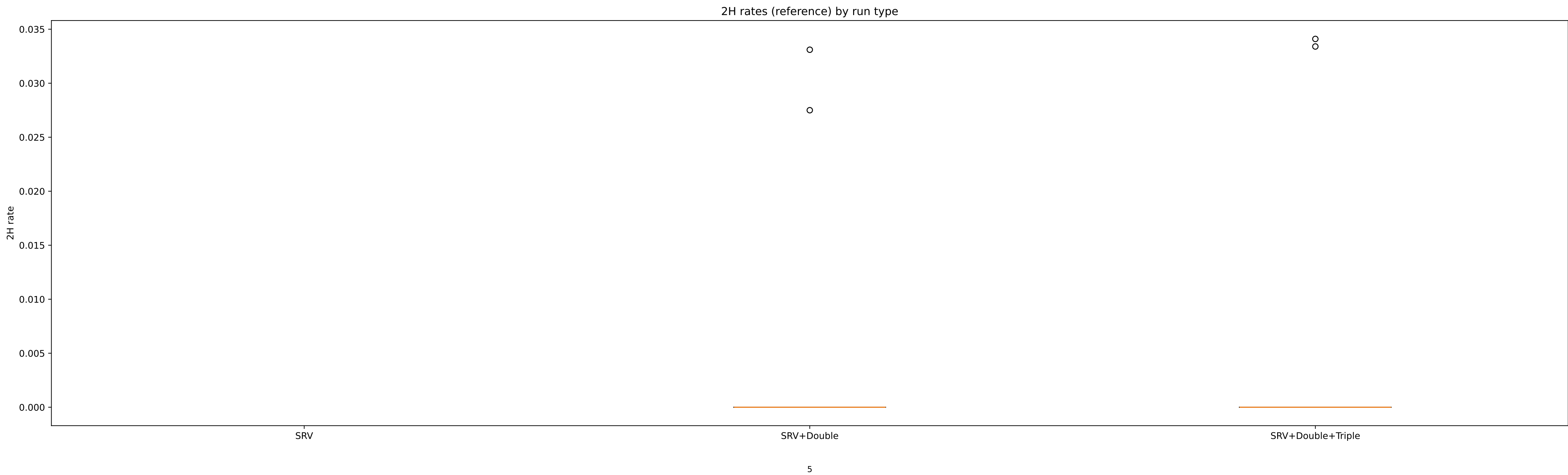
- Run-type summary

- 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_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
0.107	0.106	0.9083	0.775	0.71	0.78	0.1628	0.2427	9	nan	nan
0.1511	0.1503	0.6942	0.79	0.7	0.8	0.1628	0.2427	10	0.0	0.0744
0.1507	0.1503	0.6709	0.8	0.69	0.8	0.1628	0.2427	10	0.0	0.0743

K (alternative) by run type

3

RELAX LRT p-values by run type

2H rates (reference) by run type

2H rates (test) by run type
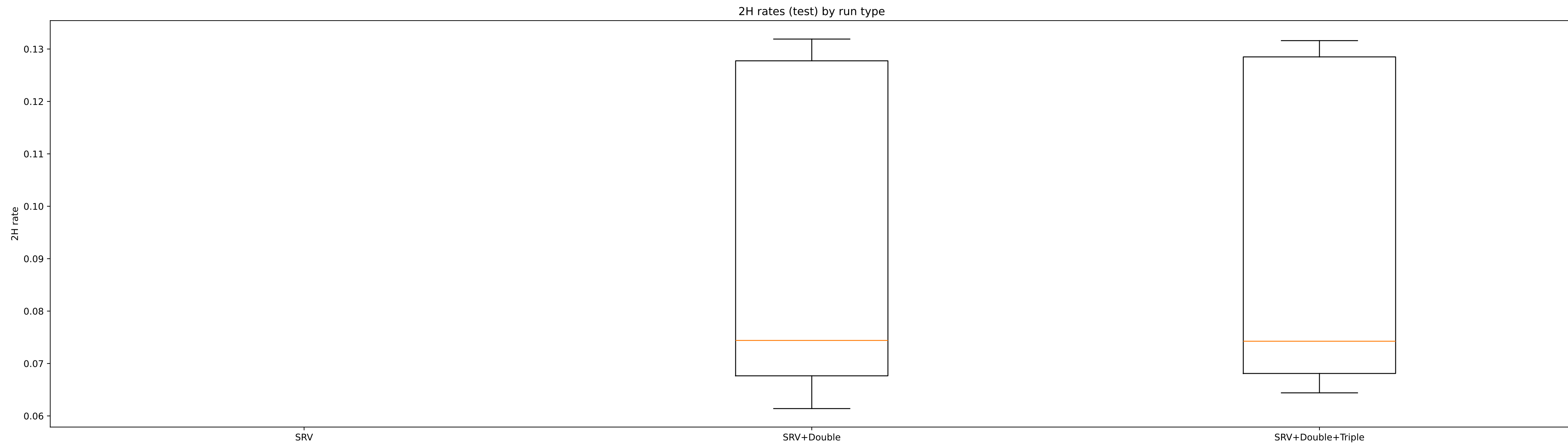
3H rates (reference) by run type

3H rates (test) by run type

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.1071	0.78	0.1628	0.2427	
	2	0.107	0.78	0.1628	0.2427	
	3	0.1069	0.77	0.1628	0.2427	
	4	0.1067	0.78	0.1628	0.2427	
	5	0.106	0.78	0.1628	0.2427	
	6	0.1088	0.77	0.1628	0.2428	
	7	0.1066	0.78	0.1628	0.2427	
	8	0.1084	0.77	0.1628	0.2427	
	9	0.9083	0.71	0.1628	0.2427	
	10	0.1089	0.77	0.1628	0.2427	

	replicate	global_dNdS_te	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1		0.1513	0.79	0.1628	0.2427	
	2		0.1509	0.8	0.1628	0.2427	
	3		0.1514	0.79	0.1628	0.2427	
	4		0.1529	0.79	0.1628	0.2427	
	5		0.1508	0.8	0.1628	0.2427	
	6		0.1525	0.79	0.1628	0.2427	
	7		0.1505	0.8	0.1628	0.2427	
	8		0.1508	0.79	0.1628	0.2427	
	9		0.1503	0.8	0.1628	0.2427	
	10		0.6942	0.7	0.1628	0.2427	

replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	0.6709	0.69	0.1628	0.2427	
2	0.1509	0.8	0.1628	0.2427	
3	0.152	0.79	0.1628	0.2427	
4	0.1503	0.8	0.1628	0.2427	
5	0.1505	0.8	0.1628	0.2427	
6	0.1537	0.79	0.1628	0.2427	
7	0.1503	0.8	0.1628	0.2427	
8	0.1503	0.8	0.1628	0.2427	
9	0.1512	0.8	0.1628	0.2427	
10	0.1504	0.8	0.1628	0.2427	

test	Negative selection	0.133	49.105	SRV+Double
test	Negative selection	0.319	50.889	SRV+Double
test	Negative selection	0.077	49.105	SRV+Double
test	Negative selection	0.235	50.889	SRV+Double
reference	Diversifying selection	1.006	0.0	SRV+Double
reference	Negative selection	0.108	33.099	SRV+Double
reference	Negative selection	0.196	66.901	SRV+Double
test	Diversifying selection	1.006	0.0	SRV+Double
test	Negative selection	0.108	33.099	SRV+Double
test	Negative selection	0.196	66.901	SRV+Double
reference	Diversifying selection	1.038	0.9	SRV+Double
reference	Negative selection	0.098	2.1	SRV+Double
reference	Negative selection	0.151	97.001	SRV+Double
test	Diversifying selection	1.031	0.9	SRV+Double
test	Diversifying selection	1.038	0.9	SRV+Double
test	Negative selection	0.156	2.1	SRV+Double
test	Negative selection	0.22	97.001	SRV+Double
test	Negative selection	0.098	2.1	SRV+Double
test	Negative selection	0.151	97.001	SRV+Double
reference	Diversifying selection	1.012	0.0	SRV+Double
reference	Negative selection	0.167	100.0	SRV+Double
reference	Negative selection	0.186	0.0	SRV+Double
test	Diversifying selection	1.012	0.0	SRV+Double
test	Negative selection	0.167	100.0	SRV+Double
test	Negative selection	0.186	0.0	SRV+Double
reference	Diversifying selection	1.008	0.0	SRV+Double
reference	Negative selection	0.109	75.626	SRV+Double
reference	Negative selection	0.307	24.374	SRV+Double
test	Diversifying selection	1.007	0.0	SRV+Double
test	Diversifying selection	1.008	0.0	SRV+Double
test	Negative selection	0.175	75.626	SRV+Double
test	Negative selection	0.394	24.374	SRV+Double
test	Negative selection	0.109	75.626	SRV+Double
test	Negative selection	0.307	24.374	SRV+Double
reference	Diversifying selection	1.426	0.0	SRV+Double
reference	Negative selection	0.139	63.736	SRV+Double
reference	Negative selection	0.215	36.264	SRV+Double
test	Diversifying selection	1.426	0.0	SRV+Double
test	Negative selection	0.139	63.736	SRV+Double
test	Negative selection	0.215	36.264	SRV+Double
reference	Diversifying selection	2.095	0.24	SRV+Double
reference	Negative selection	0.093	8.98	SRV+Double
reference	Negative selection	0.159	90.779	SRV+Double
test	Diversifying selection	1.804	0.24	SRV+Double
test	Diversifying selection	2.095	0.24	SRV+Double
test	Negative selection	0.15	8.98	SRV+Double
test	Negative selection	0.231	90.779	SRV+Double
test	Negative selection	0.093	8.98	SRV+Double
test	Negative selection	0.159	90.779	SRV+Double
reference	Diversifying selection	5.051	0.0	SRV+Double

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

class_id	syn_rate	proportion_percent	run_type
1	0.284	28.741	SRV
2	0.439	28.292	SRV
3	1.848	42.966	SRV
1	0.282	30.18	SRV
2	0.452	26.841	SRV
3	1.846	42.979	SRV
1	0.246	27.611	SRV
2	0.494	30.304	SRV
3	1.859	42.085	SRV
1	0.266	26.344	SRV
2	0.448	30.849	SRV
3	1.849	42.808	SRV
1	0.27	29.577	SRV
2	0.47	27.807	SRV
3	1.852	42.616	SRV
1	0.284	30.443	SRV
2	0.449	26.532	SRV
3	1.846	43.025	SRV
1	0.262	27.156	SRV
2	0.461	30.2	SRV
3	1.851	42.645	SRV
1	0.316	42.54	SRV
2	0.491	14.376	SRV
3	1.846	43.084	SRV
1	0.297	33.825	SRV
2	0.442	22.57	SRV
3	1.834	43.606	SRV
1	0.292	33.629	SRV
2	0.456	23.009	SRV
3	1.838	43.362	SRV
1	0.279	29.342	SRV
2	0.452	27.765	SRV
3	1.848	42.893	SRV

reference	2H	0.0	SRV+Double	
test	2H	0.0736	SRV+Double	
reference	2H	0.0	SRV+Double	
test	2H	0.0674	SRV+Double	
test	2H	0.0741	SRV+Double	
reference	2H	0.0	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.0731	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	0.0653	SRV+Double+Triple	
test	2H	0.0741	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	0.066	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	0.1285	SRV+Double+Triple	
test	2H	0.0744	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	0.0656	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	0.1313	SRV+Double+Triple	
test	2H	0.0741	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0341	SRV+Double+Triple	
reference	2H	0.0	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.0693	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	0.1312	SRV+Double+Triple	
test	2H	0.0742	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	0.0679	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	0.1306	SRV+Double+Triple	
test	2H	0.0744	SRV+Double+Triple	