# RELAX Combined Report

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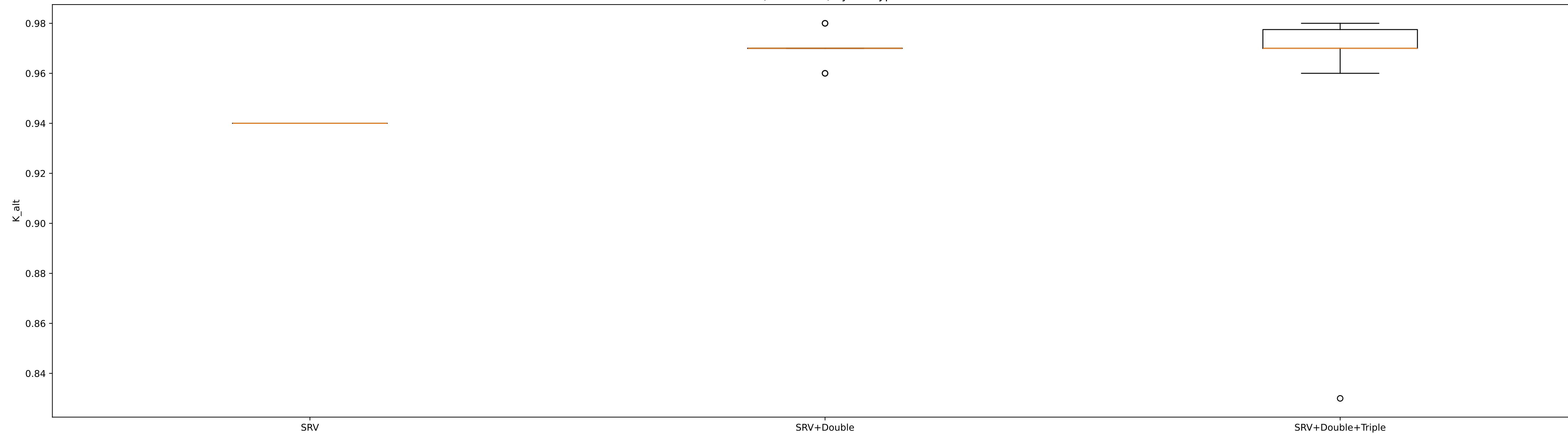
Includes:
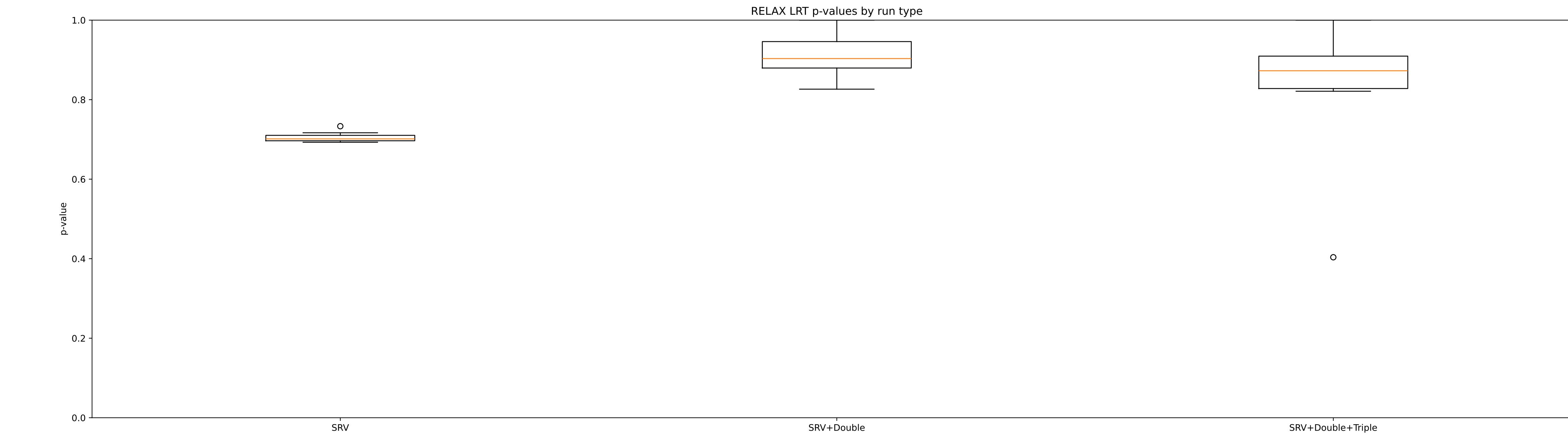
- Run-type summary

- Boxplots: K, p-values, 2H/3H

- Full omega/SRV/multihit tables (column-paged)

Run-type summary statistics
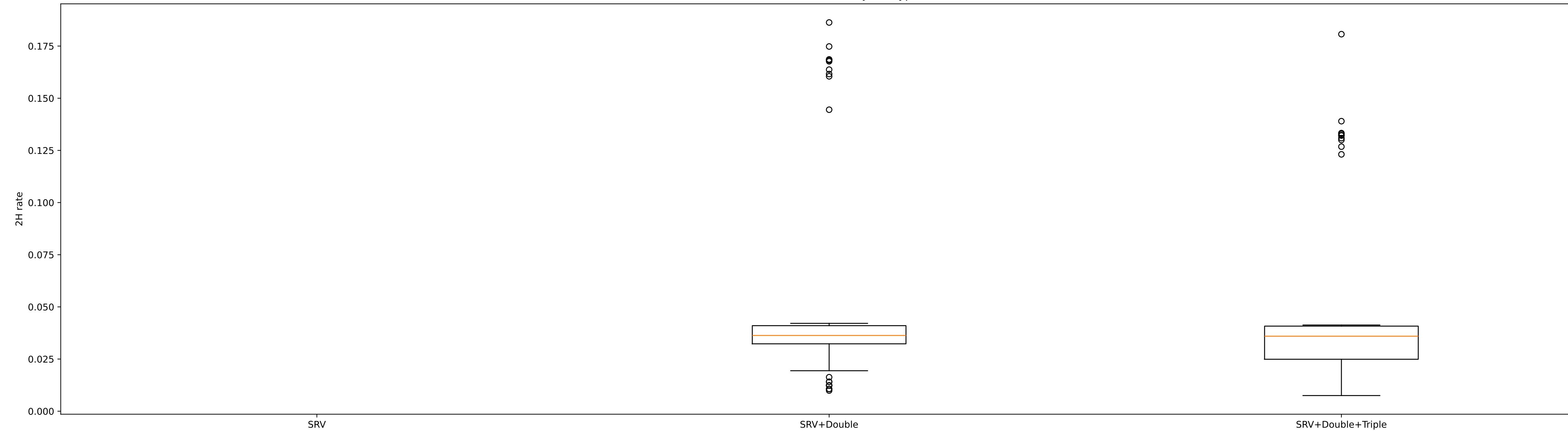
p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
0.7013	0.6929	0.7332	0.94	0.94	0.94	0.2381	0.2511	10	nan	nan
0.9033	0.8264	1.0	0.97	0.96	0.98	0.2381	0.2511	10	0.0363	0.1205
0.8727	0.4036	1.0	0.97	0.83	0.98	0.2381	0.2511	10	0.0359	0.1233

K (alternative) by run type

RELAX LRT p-values by run type
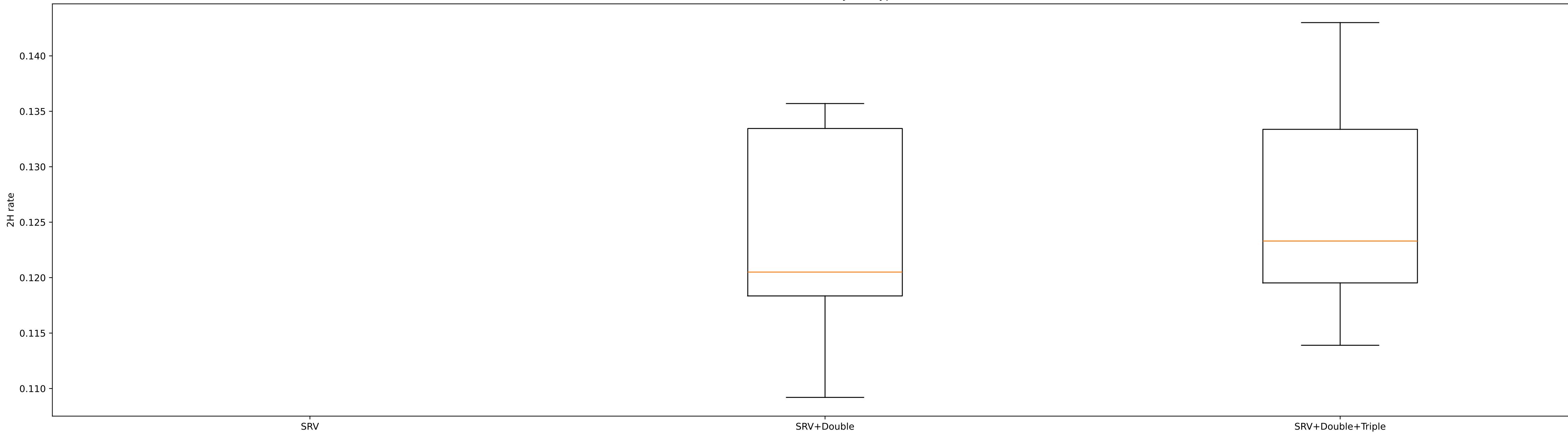
2H rates (reference) by run type
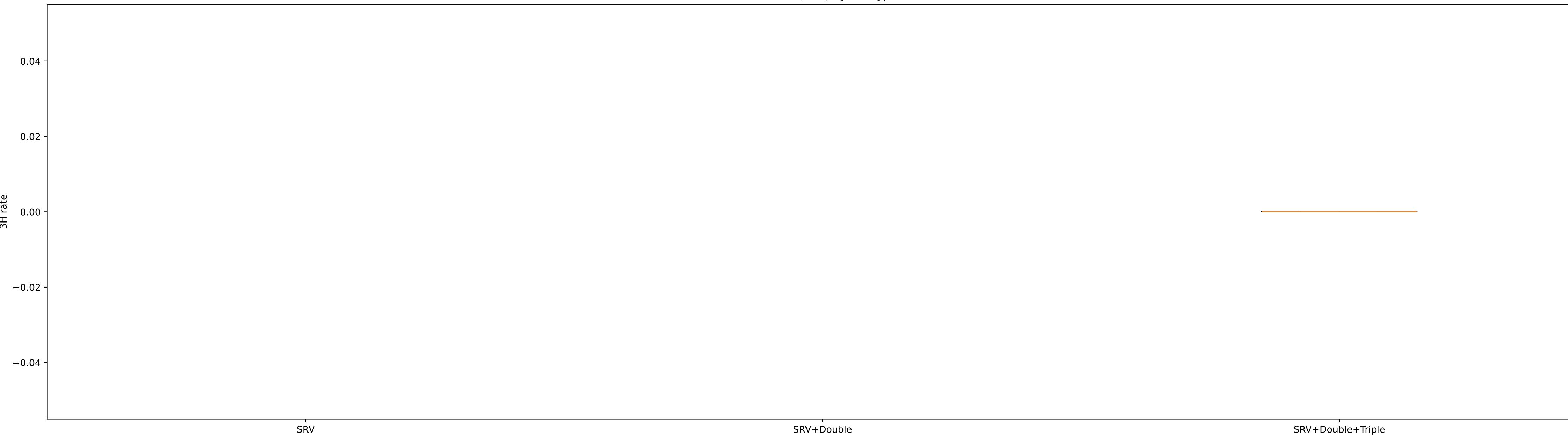
2H rates (test) by run type

3H rates (reference) by run type

3H rates (test) by run type

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.6948	0.94	0.2381	0.2511	
	2	0.6959	0.94	0.2381	0.2511	
	3	0.7009	0.94	0.2381	0.2511	
	4	0.6929	0.94	0.2381	0.2511	
	5	0.7117	0.94	0.2381	0.2511	
	6	0.7058	0.94	0.2381	0.2511	
	7	0.7017	0.94	0.2381	0.2511	
	8	0.6987	0.94	0.2381	0.2511	
	9	0.7332	0.94	0.2382	0.2514	
	10	0.7167	0.94	0.2381	0.2511	

replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	0.8578	0.96	0.2381	0.2511	
2	0.9142	0.96	0.2381	0.2511	
3	0.9039	0.98	0.2381	0.2511	
4	0.877	0.97	0.2381	0.2511	
5	1.0	0.97	0.2381	0.2511	
6	1.0	0.97	0.2381	0.2511	
7	0.9567	0.98	0.2381	0.2511	
8	0.8872	0.97	0.2381	0.2511	
9	0.8264	0.97	0.2381	0.2511	
10	0.9027	0.97	0.2381	0.2511	

replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	1.0	0.97	0.2381	0.2511	
2	0.8286	0.97	0.2381	0.2511	
3	1.0	0.96	0.2381	0.2511	
4	0.896	0.98	0.2381	0.2511	
5	0.9044	0.98	0.2381	0.2511	
6	0.8212	0.97	0.2386	0.2519	
7	0.4036	0.83	0.2381	0.2511	
8	0.8494	0.97	0.2381	0.2511	
9	0.8278	0.97	0.2381	0.2511	
10	0.9112	0.98	0.2381	0.2511	

test	Negative selection	0.036	31.212	SRV+Double
test	Negative selection	0.319	68.788	SRV+Double
test	Negative selection	0.033	31.212	SRV+Double
test	Negative selection	0.309	68.788	SRV+Double
reference	Diversifying selection	0.215	0.0	SRV+Double
reference	Negative selection	0.034	31.185	SRV+Double
reference	Negative selection	0.309	68.815	SRV+Double
test	Diversifying selection	6.204	0.0	SRV+Double
test	Negative selection	0.034	31.185	SRV+Double
test	Negative selection	0.309	68.815	SRV+Double
reference	Negative selection	0.0	10.364	SRV+Double
reference	Negative selection	0.228	87.294	SRV+Double
reference	Neutral evolution	1.0	2.342	SRV+Double
test	Negative selection	0.0	10.364	SRV+Double
test	Negative selection	0.239	87.294	SRV+Double
test	Negative selection	0.0	10.364	SRV+Double
test	Negative selection	0.228	87.294	SRV+Double
test	Neutral evolution	1.0	2.342	SRV+Double
test	Neutral evolution	1.0	2.342	SRV+Double
reference	Negative selection	0.0	18.136	SRV+Double
reference	Negative selection	0.263	80.765	SRV+Double
reference	Neutral evolution	1.0	1.099	SRV+Double
test	Negative selection	0.0	18.136	SRV+Double
test	Negative selection	0.263	80.765	SRV+Double
test	Neutral evolution	1.0	1.099	SRV+Double
reference	Negative selection	0.001	19.546	SRV+Double
reference	Negative selection	0.273	80.268	SRV+Double
reference	Neutral evolution	1.0	0.186	SRV+Double
test	Negative selection	0.002	19.546	SRV+Double
test	Negative selection	0.282	80.268	SRV+Double
test	Negative selection	0.001	19.546	SRV+Double
test	Negative selection	0.273	80.268	SRV+Double
test	Neutral evolution	1.0	0.186	SRV+Double
test	Neutral evolution	1.0	0.186	SRV+Double
reference	Diversifying selection	1.007	0.0	SRV+Double
reference	Negative selection	0.0	21.15	SRV+Double
reference	Negative selection	0.282	78.85	SRV+Double
test	Diversifying selection	1.007	0.0	SRV+Double
test	Negative selection	0.0	21.15	SRV+Double
test	Negative selection	0.282	78.85	SRV+Double
reference	Diversifying selection	2.909	0.0	SRV+Double
reference	Negative selection	0.007	21.463	SRV+Double
reference	Negative selection	0.28	78.537	SRV+Double
test	Diversifying selection	2.833	0.0	SRV+Double
test	Diversifying selection	2.909	0.0	SRV+Double
test	Negative selection	0.008	21.463	SRV+Double
test	Negative selection	0.289	78.537	SRV+Double
test	Negative selection	0.007	21.463	SRV+Double
test	Negative selection	0.28	78.537	SRV+Double
reference	Diversifying selection	1.017	0.0	SRV+Double

	class_id	syn_rate	proportion_percent	run_type	
	1	0.692	83.442	SRV	
	2	2.172	14.49	SRV	
	3	5.207	2.068	SRV	
	1	0.694	83.522	SRV	
	2	2.155	14.251	SRV	
	3	5.099	2.226	SRV	
	1	0.695	83.83	SRV	
	2	2.201	14.16	SRV	
	3	5.249	2.009	SRV	
	1	0.692	83.421	SRV	
	2	2.171	14.518	SRV	
	3	5.223	2.06	SRV	
	1	0.693	83.633	SRV	
	2	2.203	14.464	SRV	
	3	5.343	1.903	SRV	
	1	0.693	83.688	SRV	
	2	2.214	14.485	SRV	
	3	5.426	1.827	SRV	
	1	0.694	83.743	SRV	
	2	2.208	14.334	SRV	
	3	5.319	1.923	SRV	
	1	0.693	83.56	SRV	
	2	2.186	14.438	SRV	
	3	5.251	2.002	SRV	
	1	0.694	83.825	SRV	
	2	2.228	14.376	SRV	
	3	5.449	1.799	SRV	
	1	0.695	83.938	SRV	
	2	2.239	14.286	SRV	
	3	5.454	1.776	SRV	

reference	2H	0.0378	SRV+Double	
test	2H	0.1194	SRV+Double	
reference	2H	0.0363	SRV+Double	
reference	2H	0.0141	SRV+Double	
test	2H	0.124	SRV+Double	
test	2H	0.1338	SRV+Double	
reference	2H	0.1333	SRV+Double+Triple	
reference	2H	0.032	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.1196	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.032	SRV+Double+Triple	
reference	2H	0.0324	SRV+Double+Triple	
reference	2H	0.0318	SRV+Double+Triple	
reference	2H	0.0144	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.1196	SRV+Double+Triple	
test	2H	0.1139	SRV+Double+Triple	
test	2H	0.1202	SRV+Double+Triple	
test	2H	0.1338	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.139	SRV+Double+Triple	
reference	2H	0.0361	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.115	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0358	SRV+Double+Triple	
reference	2H	0.0126	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.1216	SRV+Double+Triple	
test	2H	0.1333	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.1231	SRV+Double+Triple	
reference	2H	0.0306	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.1143	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0381	SRV+Double+Triple	
reference	2H	0.0379	SRV+Double+Triple	
reference	2H	0.0372	SRV+Double+Triple	
reference	2H	0.014	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	
test	2H	0.1249	SRV+Double+Triple	
test	2H	0.1197	SRV+Double+Triple	
test	2H	0.1246	SRV+Double+Triple	
test	2H	0.1336	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.13	SRV+Double+Triple	
reference	2H	0.0322	SRV+Double+Triple	
reference	3H	0.0	SRV+Double+Triple	