# RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple
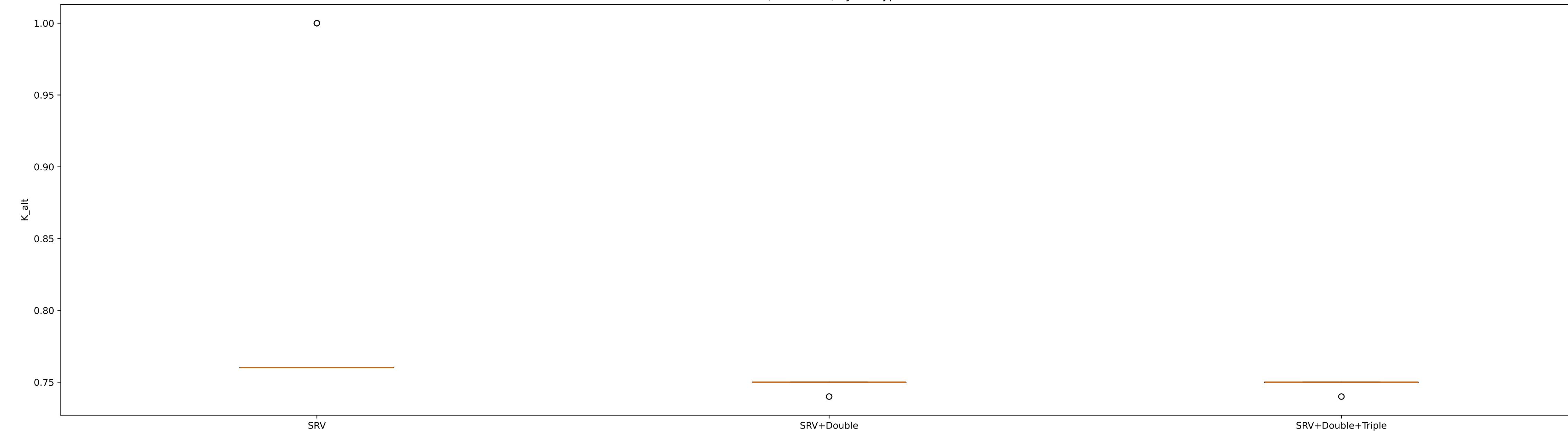
Includes:

- Run-type summary

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

- Full omega/SRV/multihit tables (column-paged)
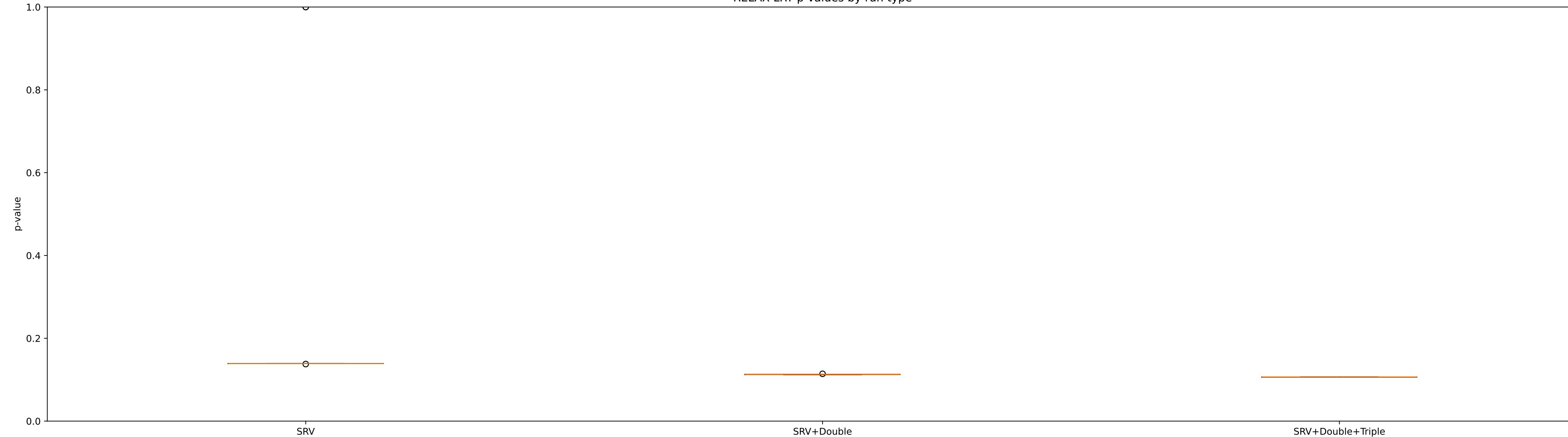
Run-type summary statistics

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
0.1391	0.1378	1.0	0.76	0.76	1.0	0.2332	0.3154	10	nan	nan
0.1127	0.1121	0.1142	0.75	0.74	0.75	0.2333	0.3154	10	0.0593	0.008
0.1065	0.1061	0.1067	0.75	0.74	0.75	0.2332	0.3153	10	0.0566	0.0148
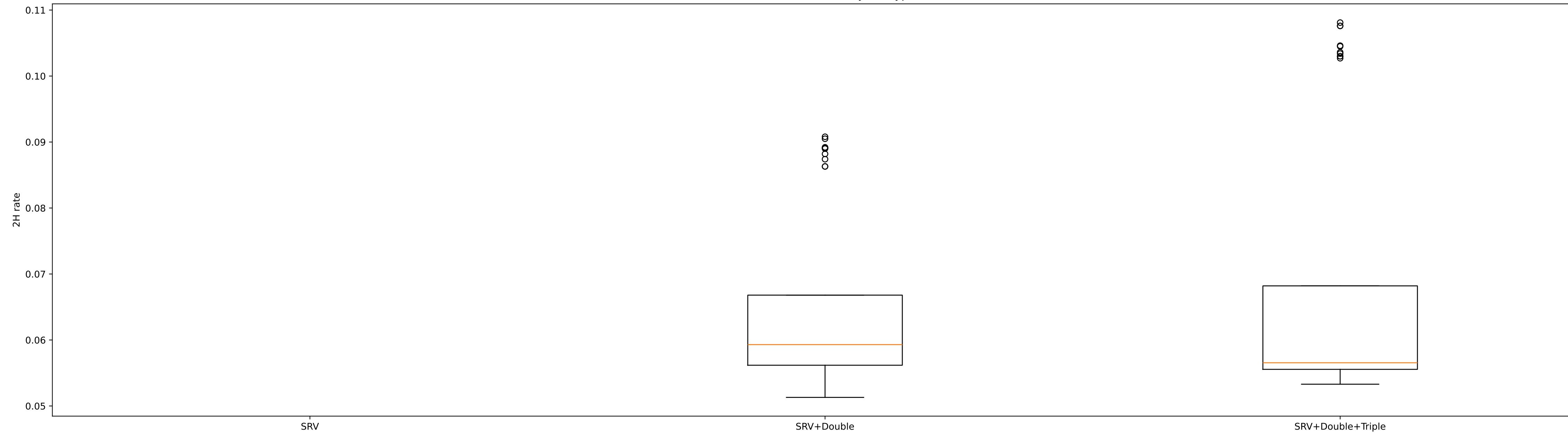
K (alternative) by run type

3
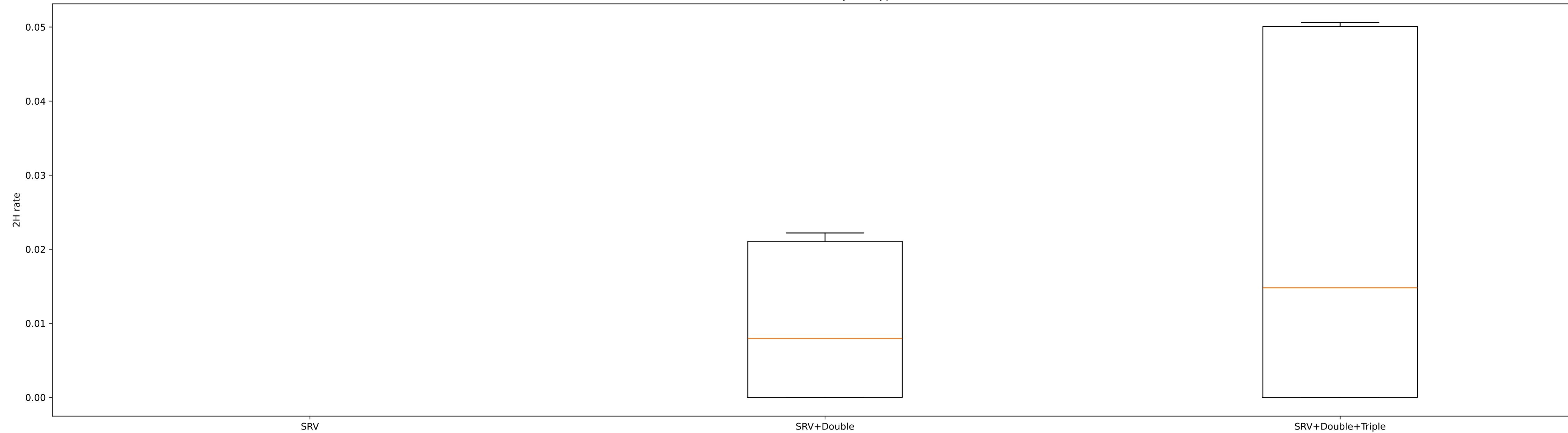
RELAX LRT p-values by run type
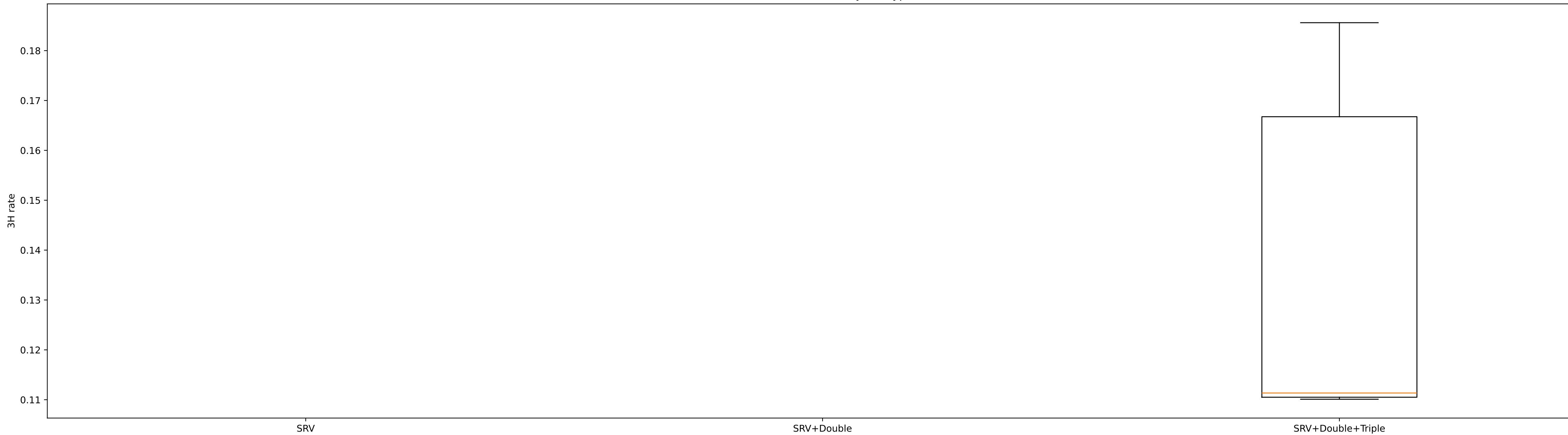
2H rates (reference) by run type
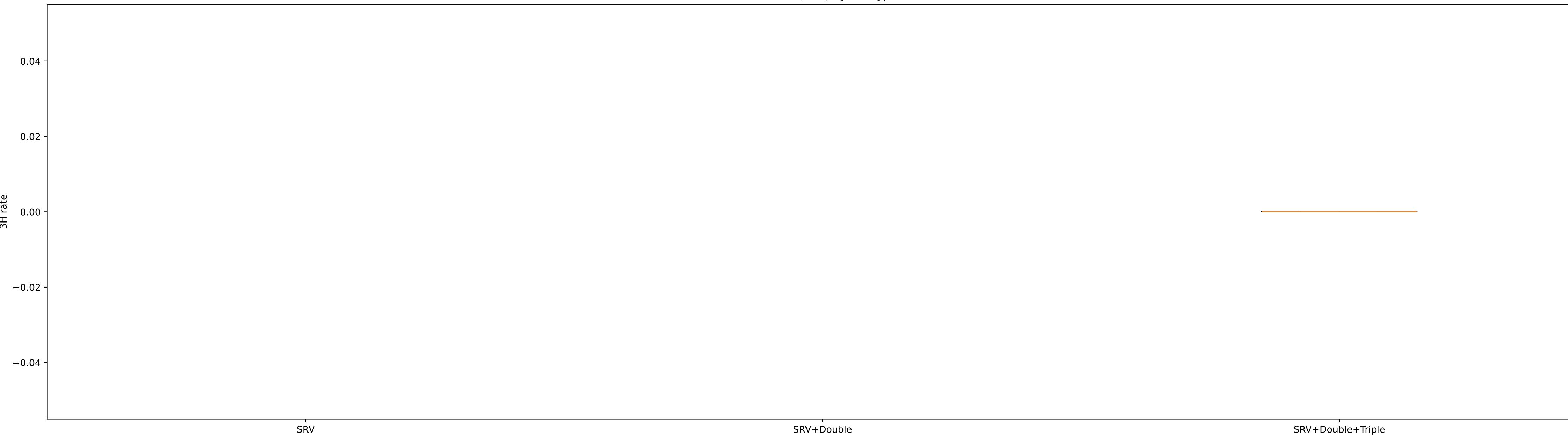
2H rates (test) by run type

6

3H rates (reference) by run type

3H rates (test) by run type

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	1.0	1.0	0.233	0.3161	
	2	0.1391	0.76	0.2335	0.315	
	3	0.1393	0.76	0.2334	0.3153	
	4	0.1392	0.76	0.2333	0.3159	
	5	0.1389	0.76	0.233	0.3161	
	6	0.1378	0.76	0.233	0.3161	
	7	1.0	1.0	0.2334	0.3154	
	8	0.139	0.76	0.2332	0.3147	
	9	0.1391	0.76	0.2332	0.3153	
	10	0.1389	0.76	0.2334	0.3154	

replicate	global_dNdS_test	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1		0.1129	0.75	0.2334	0.3154	
2		0.1126	0.75	0.2335	0.3156	
3		0.1128	0.74	0.2334	0.3154	
4		0.1142	0.75	0.2334	0.3154	
5		0.1125	0.75	0.233	0.3161	
6		0.1129	0.75	0.2332	0.3153	
7	0.315	0.1125	0.75	0.2332	0.315	
8		0.1125	0.75	0.2328	0.3153	
9	0.3161	0.1121	0.75	0.233	0.3161	
10	0.3153	0.1128	0.75	0.2334	0.3153	

replicate	global_dNdS_reference	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1		0.1067	0.75	0.2335	0.315	
2		0.1065	0.75	0.2334	0.3153	
3		0.1065	0.75	0.233	0.3161	
4	0.3147	0.1063	0.75	0.2332	0.3147	
5	0.315	0.1065	0.75	0.2332	0.315	
6		0.1061	0.74	0.2329	0.316	
7		0.1065	0.75	0.2333	0.3158	
8	0.3161	0.1062	0.75	0.233	0.3161	
9	0.3153	0.1064	0.75	0.2334	0.3153	
10	0.3153	0.1065	0.75	0.2334	0.3153	

test	Negative selection	0.0	0.71		SRV+Double
test	Negative selection	0.312	99.193		SRV+Double
test	Negative selection	0.0	0.71		SRV+Double
test	Negative selection	0.21	99.193		SRV+Double
reference	Diversifying selection	0.0	0.183		SRV+Double
reference	Negative selection	0.209	1.993		SRV+Double
reference	Negative selection	0.212	97.824		SRV+Double
test	Diversifying selection	6.03	0.183		SRV+Double
test	Negative selection	0.209	1.993		SRV+Double
test	Negative selection	0.212	97.824		SRV+Double
reference	Diversifying selection	7.786	0.115		SRV+Double
reference	Negative selection	0.186	41.135		SRV+Double
reference	Negative selection	0.224	58.75		SRV+Double
test	Diversifying selection	4.634	0.115		SRV+Double
test	Diversifying selection	7.786	0.115		SRV+Double
test	Negative selection	0.285	41.135		SRV+Double
test	Negative selection	0.327	58.75		SRV+Double
test	Negative selection	0.186	41.135		SRV+Double
test	Negative selection	0.224	58.75		SRV+Double
reference	Diversifying selection	5.761	0.199		SRV+Double
reference	Negative selection	0.195	31.27		SRV+Double
reference	Negative selection	0.219	68.531		SRV+Double
test	Diversifying selection	5.761	0.199		SRV+Double
test	Negative selection	0.195	31.27		SRV+Double
test	Negative selection	0.219	68.531		SRV+Double
reference	Diversifying selection	7.808	0.115		SRV+Double
reference	Negative selection	0.197	56.355		SRV+Double
reference	Negative selection	0.222	43.531		SRV+Double
test	Diversifying selection	4.64	0.115		SRV+Double
test	Diversifying selection	7.808	0.115		SRV+Double
test	Negative selection	0.298	56.355		SRV+Double
test	Negative selection	0.326	43.531		SRV+Double
test	Negative selection	0.197	56.355		SRV+Double
test	Negative selection	0.222	43.531		SRV+Double
reference	Diversifying selection	5.906	0.194		SRV+Double
reference	Negative selection	0.206	68.236		SRV+Double
reference	Negative selection	0.225	31.57		SRV+Double
test	Diversifying selection	5.906	0.194		SRV+Double
test	Negative selection	0.206	68.236		SRV+Double
test	Negative selection	0.225	31.57		SRV+Double
reference	Diversifying selection	8.133	0.107		SRV+Double
reference	Negative selection	0.18	14.644		SRV+Double
reference	Negative selection	0.214	85.249		SRV+Double
test	Diversifying selection	4.792	0.107		SRV+Double
test	Diversifying selection	8.133	0.107		SRV+Double
test	Negative selection	0.277	14.644		SRV+Double
test	Negative selection	0.316	85.249		SRV+Double
test	Negative selection	0.18	14.644		SRV+Double
test	Negative selection	0.214	85.249		SRV+Double
reference	Diversifying selection	6.023	0.184		SRV+Double

	class_id	syn_rate	proportion_per cent	run_type	
	1	0.13	8.87	SRV	
	2	0.869	82.242	SRV	
	3	3.084	8.889	SRV	
	1	0.124	8.621	SRV	
	2	0.866	82.383	SRV	
	3	3.07	8.996	SRV	
	1	0.123	8.544	SRV	
	2	0.865	82.448	SRV	
	3	3.066	9.008	SRV	
	1	0.123	8.54	SRV	
	2	0.865	82.413	SRV	
	3	3.062	9.048	SRV	
	1	0.125	8.646	SRV	
	2	0.866	82.33	SRV	
	3	3.065	9.024	SRV	
	1	0.12	8.431	SRV	
	2	0.863	82.493	SRV	
	3	3.063	9.076	SRV	
	1	0.167	10.524	SRV	
	2	0.881	80.672	SRV	
	3	3.087	8.804	SRV	
	1	0.125	8.645	SRV	
	2	0.866	82.335	SRV	
	3	3.065	9.019	SRV	
	1	0.123	8.52	SRV	
	2	0.864	82.431	SRV	
	3	3.063	9.049	SRV	
	1	0.129	8.777	SRV	
	2	0.867	82.233	SRV	
	3	3.069	8.989	SRV	

reference	3H	0.1114	SRV+Double+Triple	
test	2H	0.0149	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0536	SRV+Double+Triple	
reference	2H	0.0565	SRV+Double+Triple	
reference	3H	0.1105	SRV+Double+Triple	
reference	3H	0.1104	SRV+Double+Triple	
test	2H	0.0499	SRV+Double+Triple	
test	2H	0.0	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.1034	SRV+Double+Triple	
reference	2H	0.0567	SRV+Double+Triple	
reference	3H	0.1777	SRV+Double+Triple	
reference	3H	0.1115	SRV+Double+Triple	
test	2H	0.0149	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0535	SRV+Double+Triple	
reference	2H	0.0564	SRV+Double+Triple	
reference	3H	0.1106	SRV+Double+Triple	
reference	3H	0.1102	SRV+Double+Triple	
test	2H	0.0505	SRV+Double+Triple	
test	2H	0.0	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.1081	SRV+Double+Triple	
reference	2H	0.0567	SRV+Double+Triple	
reference	3H	0.1799	SRV+Double+Triple	
reference	3H	0.1115	SRV+Double+Triple	
test	2H	0.0147	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0536	SRV+Double+Triple	
reference	2H	0.0566	SRV+Double+Triple	
reference	3H	0.1104	SRV+Double+Triple	
reference	3H	0.1109	SRV+Double+Triple	
test	2H	0.0501	SRV+Double+Triple	
test	2H	0.0	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.1076	SRV+Double+Triple	
reference	2H	0.0567	SRV+Double+Triple	
reference	3H	0.1743	SRV+Double+Triple	
reference	3H	0.1116	SRV+Double+Triple	
test	2H	0.0148	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.0536	SRV+Double+Triple	
reference	2H	0.0564	SRV+Double+Triple	
reference	3H	0.1105	SRV+Double+Triple	
test	2H	0.0501	SRV+Double+Triple	
test	2H	0.0	SRV+Double+Triple	
test	3H	0.0	SRV+Double+Triple	
reference	2H	0.1045	SRV+Double+Triple	
reference	2H	0.0566	SRV+Double+Triple	