

# RELAX Combined Report

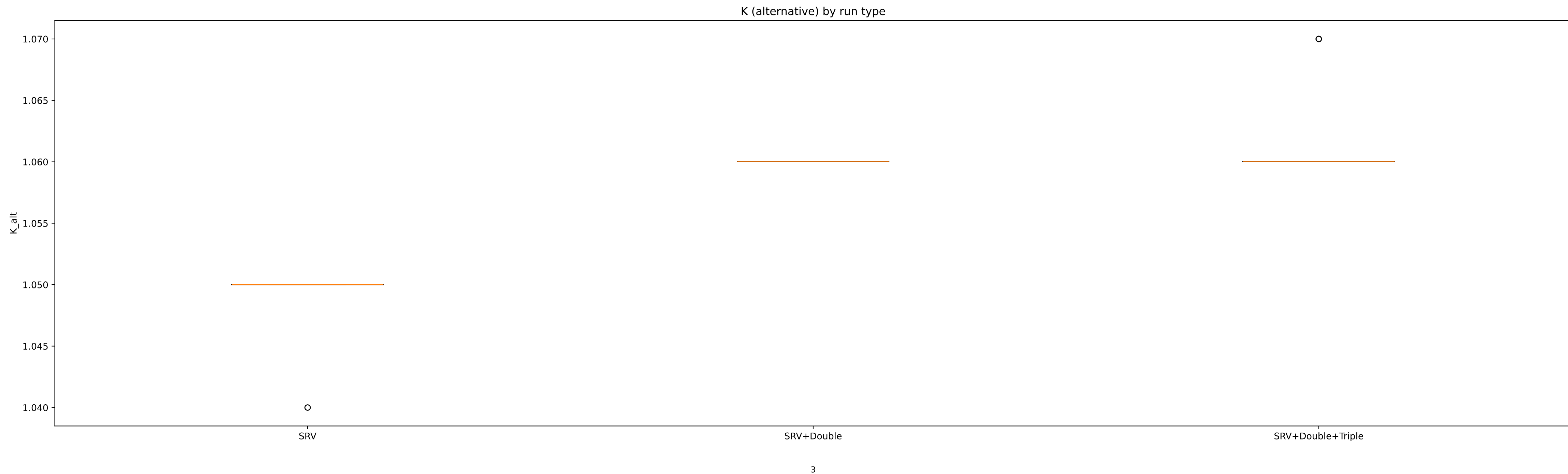
SRV vs SRV+Double vs SRV+Double+Triple

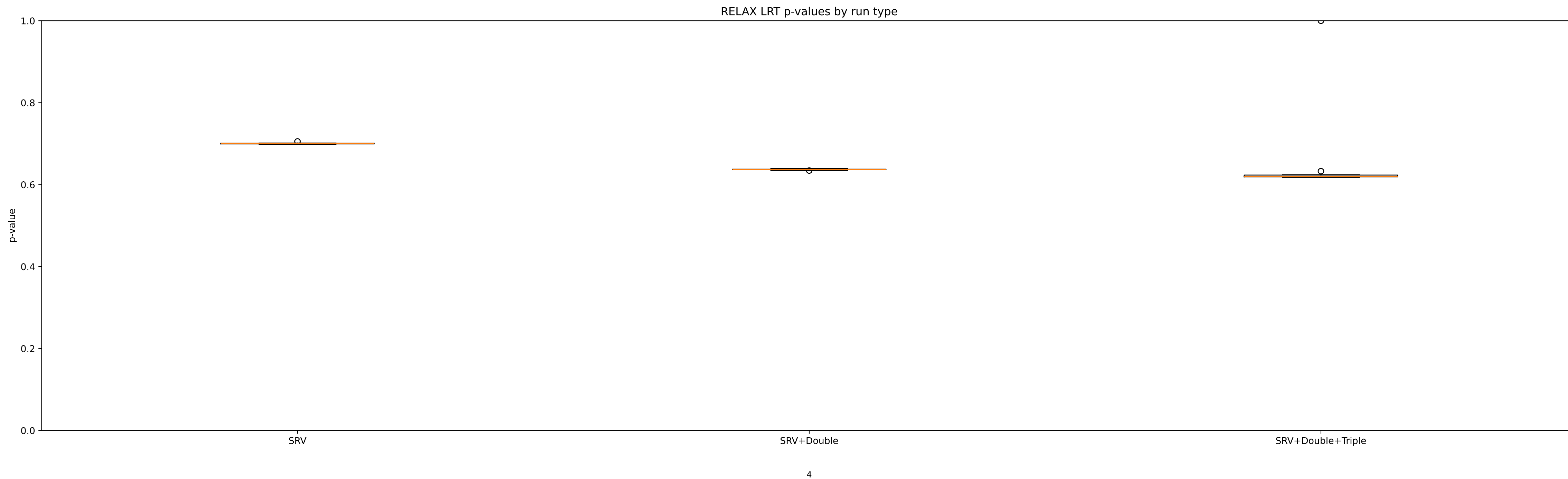
Includes:

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

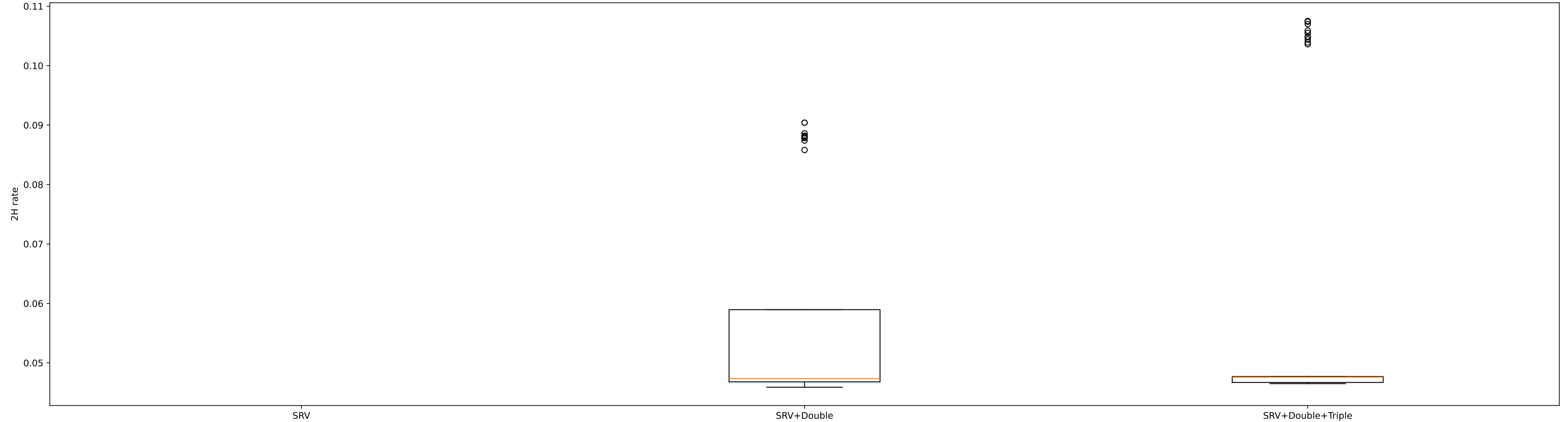
Run-type summary statistics

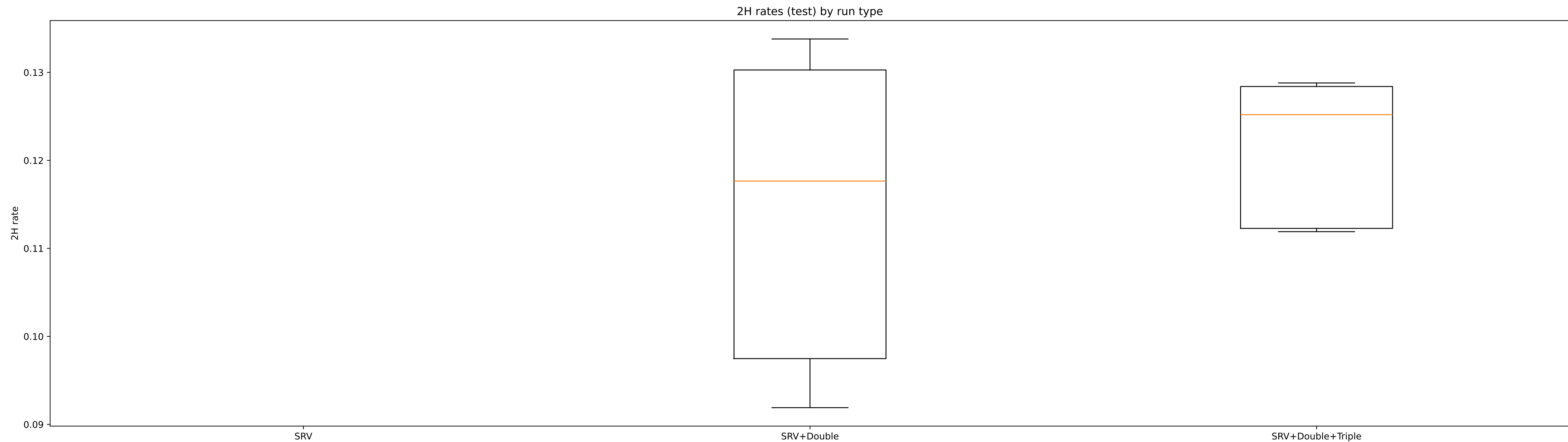
p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_med ian	omega_test_med ian	warnings_count	2H_reference_m edian	2H_test_median
0.7009	0.6986	0.7055	1.05	1.04	1.05	0.2384	0.2268	10	nan	nan
0.6366	0.6344	0.6394	1.06	1.06	1.06	0.2384	0.2268	10	0.0474	0.1176
0.6201	0.617	1.0	1.06	1.06	1.07	0.2384	0.2268	10	0.0476	0.1252



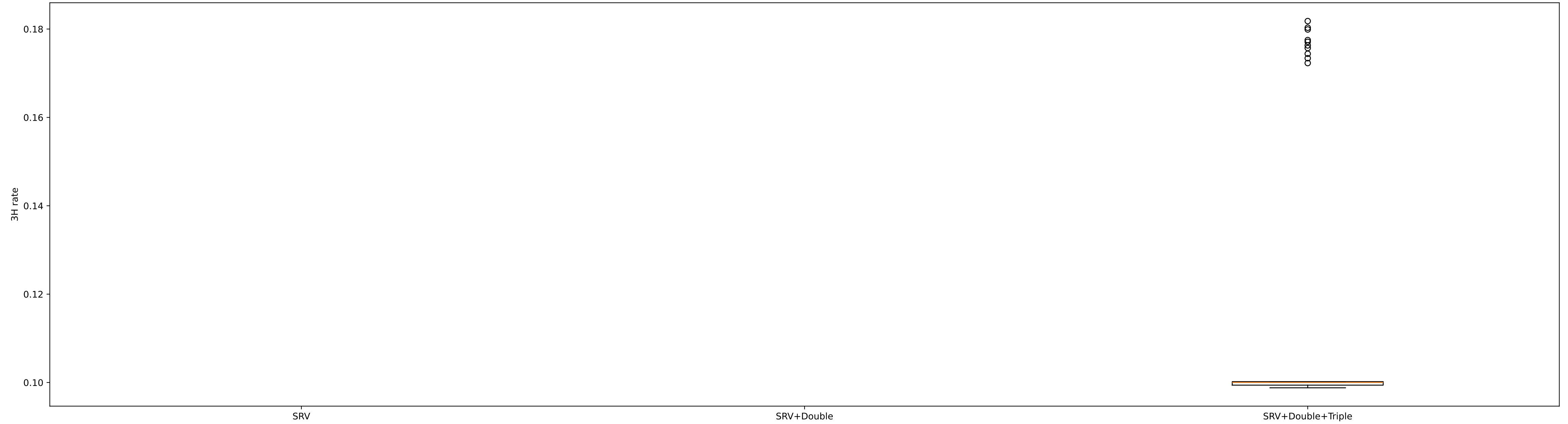


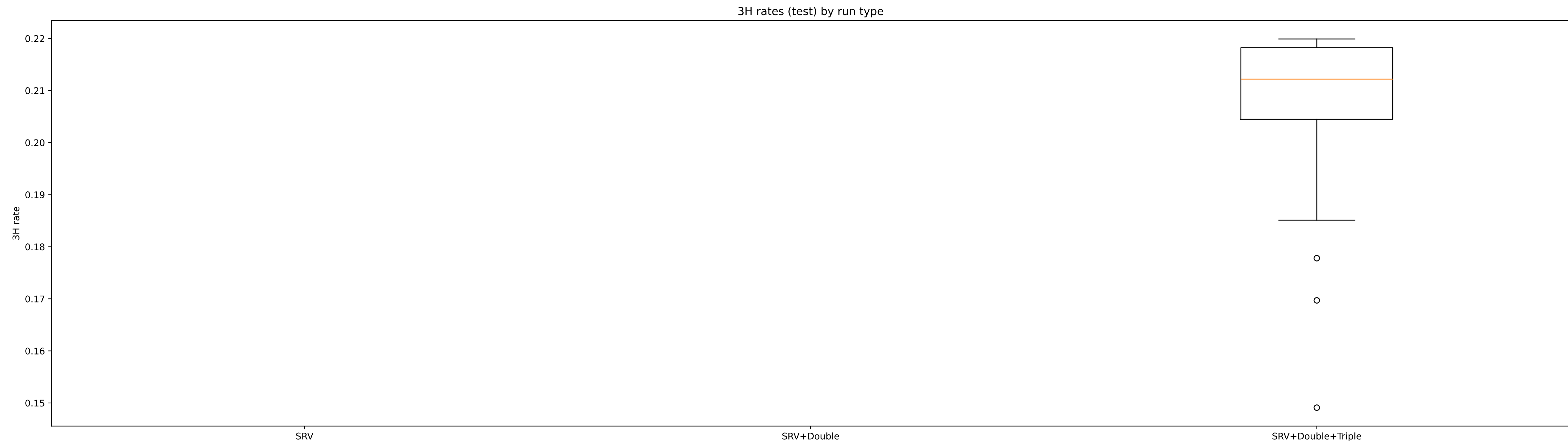
2H rates (reference) by run type





3H rates (reference) by run type







	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.7009	1.05	0.2384	0.2268	
	2	0.6986	1.05	0.2384	0.2267	
	3	0.6987	1.05	0.2386	0.2271	
	4	0.6992	1.05	0.2386	0.2271	
	5	0.7055	1.04	0.2386	0.2271	
	6	0.7009	1.05	0.2378	0.2266	
	7	0.7011	1.05	0.2383	0.2266	
	8	0.6998	1.05	0.2383	0.2268	
	9	0.7016	1.05	0.2383	0.2269	
	10	0.7014	1.05	0.2384	0.2266	

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.6346	1.06	0.2383	0.2269	
	2	0.6364	1.06	0.2383	0.2266	
	3	0.6394	1.06	0.2384	0.227	
	4	0.6369	1.06	0.2384	0.2266	
	5	0.6372	1.06	0.2386	0.2273	
	6	0.6388	1.06	0.2386	0.2272	
	7	0.6364	1.06	0.2387	0.227	
	8	0.6344	1.06	0.2378	0.2266	
	9	0.6364	1.06	0.2384	0.2268	
	10	0.6378	1.06	0.2378	0.2266	

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.6191	1.06	0.2385	0.2267	
	2	0.617	1.06	0.2384	0.2268	
	3	0.6213	1.06	0.2386	0.2272	
	4	0.624	1.07	0.2387	0.2273	
	5	0.6206	1.06	0.2386	0.2268	
	6	0.6196	1.07	0.2383	0.2268	
	7	1.0	1.06	0.2384	0.2266	
	8	0.6329	1.06	0.2383	0.2265	
	9	0.6181	1.06	0.2384	0.2268	
	10	0.6191	1.06	0.2386	0.2272	

	test	Negative selection	0.171	33.337	SRV+Double	
	test	Negative selection	0.209	66.541	SRV+Double	
	test	Negative selection	0.189	33.337	SRV+Double	
	test	Negative selection	0.229	66.541	SRV+Double	
	reference	Diversifying selection	0.199	0.108	SRV+Double	
	reference	Negative selection	0.193	39.867	SRV+Double	
	reference	Negative selection	0.227	60.025	SRV+Double	
	test	Diversifying selection	8.198	0.108	SRV+Double	
	test	Negative selection	0.193	39.867	SRV+Double	
	test	Negative selection	0.227	60.025	SRV+Double	
	reference	Diversifying selection	8.069	0.105	SRV+Double	
	reference	Negative selection	0.202	3.475	SRV+Double	
	reference	Negative selection	0.216	96.42	SRV+Double	
	test	Diversifying selection	9.164	0.105	SRV+Double	
	test	Diversifying selection	8.069	0.105	SRV+Double	
	test	Negative selection	0.184	3.475	SRV+Double	
	test	Negative selection	0.197	96.42	SRV+Double	
	test	Negative selection	0.202	3.475	SRV+Double	
	test	Negative selection	0.216	96.42	SRV+Double	
	reference	Diversifying selection	7.899	0.114	SRV+Double	
	reference	Negative selection	0.213	96.56	SRV+Double	
	reference	Negative selection	0.22	3.326	SRV+Double	
	test	Diversifying selection	7.899	0.114	SRV+Double	
	test	Negative selection	0.213	96.56	SRV+Double	
	test	Negative selection	0.22	3.326	SRV+Double	
	reference	Diversifying selection	7.287	0.124	SRV+Double	
	reference	Negative selection	0.197	40.371	SRV+Double	
	reference	Negative selection	0.228	59.505	SRV+Double	
	test	Diversifying selection	8.226	0.124	SRV+Double	
	test	Diversifying selection	7.287	0.124	SRV+Double	
	test	Negative selection	0.178	40.371	SRV+Double	
	test	Negative selection	0.208	59.505	SRV+Double	
	test	Negative selection	0.197	40.371	SRV+Double	
	test	Negative selection	0.228	59.505	SRV+Double	
	reference	Diversifying selection	7.843	0.117	SRV+Double	
	reference	Negative selection	0.201	53.987	SRV+Double	
	reference	Negative selection	0.228	45.896	SRV+Double	
	test	Diversifying selection	7.843	0.117	SRV+Double	
	test	Negative selection	0.201	53.987	SRV+Double	
	test	Negative selection	0.228	45.896	SRV+Double	
	reference	Diversifying selection	7.449	0.119	SRV+Double	
	reference	Negative selection	0.211	80.475	SRV+Double	
	reference	Negative selection	0.232	19.406	SRV+Double	
	test	Diversifying selection	8.404	0.119	SRV+Double	
	test	Diversifying selection	7.449	0.119	SRV+Double	
	test	Negative selection	0.192	80.475	SRV+Double	
	test	Negative selection	0.212	19.406	SRV+Double	
	test	Negative selection	0.211	80.475	SRV+Double	
	test	Negative selection	0.232	19.406	SRV+Double	
	reference	Diversifying selection	7.906	0.116	SRV+Double	

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

	class_id	syn_rate	proportion_per cent	run_type	
	1	0.116	8.264	SRV	
	2	0.862	82.647	SRV	
	3	3.055	9.089	SRV	
	1	0.118	8.342	SRV	
	2	0.863	82.583	SRV	
	3	3.058	9.075	SRV	
	1	0.11	8.04	SRV	
	2	0.86	82.822	SRV	
	3	3.048	9.138	SRV	
	1	0.119	8.394	SRV	
	2	0.863	82.531	SRV	
	3	3.059	9.075	SRV	
	1	0.114	8.187	SRV	
	2	0.862	82.708	SRV	
	3	3.053	9.105	SRV	
	1	0.12	8.423	SRV	
	2	0.863	82.5	SRV	
	3	3.059	9.077	SRV	
	1	0.117	8.336	SRV	
	2	0.863	82.587	SRV	
	3	3.057	9.077	SRV	
	1	0.119	8.376	SRV	
	2	0.863	82.568	SRV	
	3	3.062	9.056	SRV	
	1	0.114	8.207	SRV	
	2	0.862	82.681	SRV	
	3	3.052	9.111	SRV	
	1	0.12	8.438	SRV	
	2	0.864	82.509	SRV	
	3	3.061	9.053	SRV	

	reference	2H	0.1048	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1757	SRV+Double+Triple	
	reference	3H	0.0994	SRV+Double+Triple	
	test	2H	0.1285	SRV+Double+Triple	
	test	3H	0.2178	SRV+Double+Triple	
	reference	2H	0.0476	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1001	SRV+Double+Triple	
	reference	3H	0.0994	SRV+Double+Triple	
	test	2H	0.1123	SRV+Double+Triple	
	test	2H	0.1286	SRV+Double+Triple	
	test	3H	0.2042	SRV+Double+Triple	
	test	3H	0.2179	SRV+Double+Triple	
	reference	2H	0.1036	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1775	SRV+Double+Triple	
	reference	3H	0.0991	SRV+Double+Triple	
	test	2H	0.1282	SRV+Double+Triple	
	test	3H	0.2185	SRV+Double+Triple	
	reference	2H	0.0477	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1	SRV+Double+Triple	
	reference	3H	0.0995	SRV+Double+Triple	
	test	2H	0.1121	SRV+Double+Triple	
	test	2H	0.1286	SRV+Double+Triple	
	test	3H	0.2054	SRV+Double+Triple	
	test	3H	0.2179	SRV+Double+Triple	
	reference	2H	0.1055	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1803	SRV+Double+Triple	
	reference	3H	0.0991	SRV+Double+Triple	
	test	2H	0.1284	SRV+Double+Triple	
	test	3H	0.2194	SRV+Double+Triple	
	reference	2H	0.0476	SRV+Double+Triple	
	reference	2H	0.0466	SRV+Double+Triple	
	reference	3H	0.1001	SRV+Double+Triple	
	reference	3H	0.0995	SRV+Double+Triple	
	test	2H	0.1121	SRV+Double+Triple	
	test	2H	0.1287	SRV+Double+Triple	
	test	3H	0.2045	SRV+Double+Triple	
	test	3H	0.2193	SRV+Double+Triple	
	reference	2H	0.107	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	
	reference	3H	0.1723	SRV+Double+Triple	
	reference	3H	0.0991	SRV+Double+Triple	
	test	2H	0.128	SRV+Double+Triple	
	test	3H	0.2183	SRV+Double+Triple	
	reference	2H	0.0476	SRV+Double+Triple	
	reference	2H	0.0467	SRV+Double+Triple	