

Shifting patterns identified

Shifting Patterns	shift numer	Start Finger	End finger	Start pos	End pos	String Crossing (Y/n)	Bow Direction Change (Y/N)	String used
I	1,7,13	2	4	1	3	y	n	e,a
II	2,8	2	4	3	5	n	n	a
III	3,9	2	4	5	3	n	n	a
IV	4,6,10,12,18	1	3	3	1	n	n	a
V	5,11	1	3	1	3	n	n	a
VI	14	2	4	3	1	n	n	a
VII	15	2	4	1	3	y	n	a,d
VIII	16	1	3	3	1	n	n	e
IX	17	1	3	1	3	y	n	e,a

Female Subjects:

S4

Tempo 60 a

Shifting Patterns	shift #	tme		error in shift beginning accuracy (s)	End	time		error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
		interval between shift beginnings (s)	interval between shift endings (s)							
A	1	468	1.02	0.01	541	1.03	0.02	W	73	
B	2	671	0.98	0.03	746	0.95	0.05	W	75	
C	3	866	2.11	0.05	936	2.13	0.06	T	70	
D	4	1288	0.99	0.02	1361	0.98	0.02	T	73	
E	5	1485	1.01	0.00	1557	1.02	0.01	W	72	
D	6	1686	1.94	0.03	1760	1.94	0.06	W	74	
A	7	2074	1.04	0.04	2147	1.10	0.10	W	73	
B	8	2282	1.01	0.01	2366	0.97	0.03	W	84	
C	9	2484	1.94	0.03	2560	1.92	0.09	T	76	
D	10	2872	1.05	0.05	2943	1.04	0.04	T	71	
E	11	3082	0.99	0.02	3151	0.98	0.02	W	69	
D	12	3279	2.04	0.02	3347	2.01	0.00	W	68	
A	13	3686	0.96	0.05	3748	1.01	0.01	W	62	
F	14	3877	0.99	0.01	3950	0.99	0.01	T	73	
G	15	4075	1.99	0.01	4148	1.99	0.01	W	73	
H	16	4472	1.02	0.02	4545	1.03	0.02	T	73	
I	17	4676	0.96	0.04	4750	0.95	0.06	W	74	
D	18	4868			4939			T	71	
				0.03 s			0.04 s		72.4 f	
				0.02 s			0.03 s		4.3 f	

Tempo 60 b

Begin	tme		End	time		error in shift accuracy (s)	initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings (s)	error in shift ending accuracy (s)			
570	0.98	0.02	641	0.99	0.01	W	71	
766	0.99	0.02	839	0.99	0.02	W	73	
963	1.97	0.02	1036	1.97	0.02	T	73	
1357	1.02	0.02	1429	0.99	0.02	T	72	
1561	0.97	0.04	1626	1.00	0.01	W	65	
1754	1.99	0.01	1825	2.04	0.04	T	71	
2152	1.07	0.07	2233	1.04	0.04	W	81	
2366	0.98	0.03	2441	0.98	0.03	W	75	
2561	2.01	0.00	2636	2.00	0.00	T	75	

2962	0.99	0.01	3036	0.99	0.02	T	74
3160	1.00	0.01	3233	0.99	0.01	W	73
3359	2.00	0.00	3431	2.00	0.00	T	72
3758	0.98	0.02	3831	0.99	0.01	W	73
3954	1.06	0.06	4029	1.05	0.05	T	75
4166	1.98	0.01	4239	1.99	0.01	W	73
4561	1.01	0.00	4636	0.99	0.01	T	75
4762	0.97	0.04	4834	0.98	0.02	W	72
4955			5030			T	75
		0.02 s			0.02 s		73.2 f
		0.02 s			0.01 s		3.1 f

End accur.	27 ms	Duration	364 ms
StDev	21 ms	StDev	18 ms

Note: the Duration is converted from f (frames) to ms by timing 5 (1s/200Hz=5ms).

Tempo 72 a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
778	1.01	0.01	841	1.08	0.08	W	63
947	1.03	0.03	1021	1.05	0.05	W	74
1118	2.05	0.02	1196	2.11	0.06	T	78
1459	1.01	0.01	1548	0.92	0.08	T	89
1627	0.94	0.06	1702	0.93	0.07	W	75
1783	1.93	0.04	1857	1.94	0.06	T	74
2104	1.08	0.08	2181	1.04	0.04	W	77
2284	0.95	0.05	2354	0.96	0.04	W	70
2443	1.97	0.02	2514	1.98	0.02	T	71
2771	0.99	0.01	2844	1.02	0.02	T	73
2936	0.98	0.02	3014	0.94	0.06	W	78
3099	2.03	0.01	3171	2.04	0.04	T	72
3437	0.99	0.01	3511	1.04	0.04	W	74
3602	1.01	0.01	3684	0.98	0.02	T	82
3771	1.97	0.02	3848	1.95	0.05	W	77
4099	1.03	0.03	4173	1.04	0.04	T	74
4271	1.06	0.06	4346	1.06	0.06	W	75
4448			4523			T	75
		0.03 s			0.05 s		75.1 f
		0.02 s			0.02 s		5.3 f

Tempo 72 b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
502	1.07	0.07	576	1.07	0.07	W	74
681	0.92	0.08	755	0.94	0.06	W	74
834	1.97	0.01	911	1.96	0.02	T	77
1163	1.03	0.03	1238	1.04	0.04	T	75
1334	0.97	0.03	1411	0.95	0.05	W	77
1496	2.08	0.04	1570	2.05	0.05	T	74
1843	0.97	0.03	1912	1.01	0.01	W	69
2005	1.01	0.01	2080	0.95	0.05	W	75
2173	1.97	0.01	2239	2.02	0.02	T	66
2502	0.99	0.01	2575	1.00	0.00	T	73
2667	0.94	0.06	2742	1.01	0.01	W	75
2823	2.02	0.01	2911	1.97	0.03	T	88
3159	1.07	0.07	3240	1.04	0.04	W	81

3338	0.99	0.01	3413	0.98	0.02	T	75
3503	1.96	0.02	3577	1.96	0.04	W	74
3829	1.04	0.04	3904	1.04	0.04	T	75
4002	1.01	0.01	4077	1.03	0.03	W	75
4171			4248			T	77
		0.03	s		0.03	s	75.2 f
		0.03	s		0.02	s	4.5 f

End accur.	40	ms	Duration	376	ms
StDev	19	ms	StDev	24	ms

Tempo 100

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
621	1.08	0.08	716	0.93	0.07	W	95
750	0.97	0.03	828	0.90	0.10	W	78
866	1.90	0.05	936	1.91	0.05	T	70
1094	1.02	0.02	1165	1.03	0.02	T	71
1216	1.07	0.07	1288	0.90	0.10	W	72
1344	1.93	0.07	1396	2.05	0.05	T	52
1576	1.08	0.08	1642	1.12	0.12	W	66
1705	0.94	0.06	1776	0.94	0.06	W	71
1818	2.04	0.04	1889	2.03	0.03	T	71
2063	0.99	0.01	2133	0.99	0.01	T	70
2182	1.03	0.02	2252	1.04	0.04	W	70
2305	2.01	0.01	2377	1.99	0.01	T	72
2546	1.13	0.13	2616	1.03	0.02	W	70
2681	0.93	0.07	2739	0.99	0.01	T	58
2793	2.00	0.00	2858	2.04	0.04	W	65
3033	0.97	0.03	3103	0.98	0.03	T	70
3149	1.03	0.03	3220	1.03	0.02	W	71
3273			3343			T	70
		0.05 s			0.05 s		70.1 f
		0.03 s			0.03 s		8.4 f

End Accur. 46 Duration 351 ms
 StDev 33 StDev 42 ms

Tempo 60 a

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings (s)	error in shift ending accuracy (s)		
650	1.01	0.01	706	0.95	0.05	T	56
852	0.89	0.11	896	0.98	0.03	T	44
1030	1.96	0.02	1091	2.05	0.02	T	61
1422	1.07	0.07	1501	0.99	0.02	T	79
1636	1.10	0.10	1698	0.99	0.01	W	62
1856	2.03	0.01	1896	2.09	0.09	T	40
2262	0.98	0.02	2313	0.93	0.07	T	51
2458	0.98	0.03	2499	1.03	0.02	T	41
2653	1.97	0.02	2704	1.99	0.01	T	51
3046	0.96	0.04	3102	0.98	0.03	T	56
3238	0.96	0.04	3297	0.99	0.02	W	59
3430	1.99	0.01	3494	2.07	0.06	T	64
3828	0.98	0.03	3907	0.95	0.06	T	79
4023	1.03	0.03	4096	1.01	0.01	T	73
4229	2.02	0.01	4298	2.01	0.00	W	69
4632	1.03	0.03	4699	0.99	0.02	T	67
4838	1.00	0.00	4896	1.03	0.02	W	58
5038			5101			T	63
		0.03 s			0.03 s		59.6 f
		0.03 s			0.02 s		11.5 f

Tempo 60 b

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings (s)	error in shift ending accuracy (s)		
324	0.98	0.03	380	0.95	0.06	T	56
519	0.96	0.04	569	1.05	0.05	T	50
711	2.04	0.02	779	2.09	0.04	T	68
1118	1.07	0.06	1196	0.99	0.01	T	78
1331	1.05	0.05	1394	1.02	0.02	T	63
1541	2.04	0.02	1598	1.98	0.02	T	57
1949	0.99	0.01	1994	0.97	0.03	T	45
2147	0.97	0.03	2188	1.01	0.00	T	41
2341	1.96	0.02	2389	2.03	0.03	T	48

2733	1.03	0.02	2795	0.99	0.01	T	62
2938	0.98	0.02	2993	0.99	0.01	T	55
3134	1.96	0.02	3191	1.99	0.01	T	57
3525	0.97	0.03	3589	1.00	0.01	T	64
3719	0.95	0.06	3788	0.99	0.01	T	69
3908	2.01	0.00	3986	1.96	0.04	W	78
4309	1.04	0.03	4378	0.99	0.01	T	69
4516	0.96	0.05	4576	1.05	0.05	W	60
4707			4786			T	79
		0.03	s		0.02	s	61.1 f
		0.02	s		0.02	s	11.2 f

End accur.	28	ms	Duration	302	ms
StDev	21	ms	StDev	57	ms

Tempo 72 a

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginnig accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
729	0.97	0.03	797	0.89	0.11	T	68
891	1.03	0.03	946	1.00	0.00	T	55
1063	2.03	0.01	1113	2.15	0.07	T	50
1401	1.01	0.01	1471	0.97	0.03	T	70
1569	1.03	0.03	1633	1.10	0.10	T	64
1740	2.05	0.02	1816	1.94	0.06	T	76
2081	1.01	0.01	2140	1.00	0.00	T	59
2250	1.00	0.00	2306	1.04	0.04	T	56
2417	2.02	0.01	2479	1.99	0.01	T	62
2753	0.98	0.02	2810	1.00	0.00	T	57
2917	1.01	0.01	2976	1.03	0.03	T	59
3085	1.93	0.04	3147	1.97	0.03	T	62
3406	0.97	0.03	3476	0.89	0.11	T	70
3568	1.01	0.01	3624	1.06	0.06	T	56
3736	1.99	0.01	3800	1.93	0.07	T	64
4067	0.99	0.01	4121	1.02	0.02	T	54
4232	0.98	0.02	4291	1.00	0.00	T	59
4396			4458			T	62
		0.02 s			0.04 s		61.3 f
		0.01 s			0.04 s		6.6 f

72b

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginnig accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
521	0.95	0.05	582	0.91	0.09	T	61
679	0.98	0.02	734	1.00	0.00	T	55
843	2.08	0.04	900	2.12	0.06	T	57
1189	0.97	0.03	1253	0.99	0.01	T	64
1351	1.00	0.00	1418	1.04	0.04	T	67
1517	2.05	0.03	1592	2.00	0.00	T	75
1859	0.98	0.02	1926	0.92	0.08	T	67
2023	1.01	0.01	2080	1.03	0.03	T	57
2192	2.00	0.00	2252	2.01	0.01	T	60
2526	0.99	0.01	2587	0.91	0.09	T	61
2691	0.95	0.05	2738	1.01	0.01	W	47

2850	1.94	0.03	2906	1.95	0.05	T	56
3173	0.97	0.03	3231	1.00	0.00	T	58
3335	0.96	0.04	3398	0.97	0.03	T	63
3495	2.01	0.00	3560	2.03	0.03	T	65
3830	1.03	0.03	3899	1.06	0.06	T	69
4001	0.95	0.05	4076	0.88	0.12	W	75
4160			4222			T	62
		0.03	s		0.04	s	62.2
		0.02	s		0.04	s	7.0

End accur.	43	ms	Duration	309	ms
StDev	37	ms	StDev	34	ms

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
576	1.03	0.02	635	0.98	0.03	T	59
699	1.02	0.02	752	1.03	0.03	T	53
821	2.08	0.04	876	2.03	0.01	T	55
1070	1.08	0.08	1119	1.07	0.07	T	49
1199	0.96	0.04	1247	1.03	0.02	T	48
1314	2.05	0.05	1370	2.09	0.09	T	56
1560	0.98	0.03	1621	0.98	0.03	T	61
1677	0.96	0.04	1738	0.98	0.02	T	61
1792	1.99	0.01	1856	1.98	0.02	T	64
2031	0.97	0.03	2094	0.99	0.01	T	63
2147	0.99	0.01	2213	0.97	0.03	T	66
2266	2.01	0.01	2329	2.09	0.09	T	63
2507	1.03	0.03	2580	0.98	0.02	T	73
2631	1.04	0.04	2698	1.07	0.07	T	67
2756	2.08	0.08	2826	2.04	0.04	T	70
3005	1.01	0.01	3071	0.98	0.02	T	66
3126	1.00	0.00	3189	0.98	0.03	W	63
3246			3306			T	60
		0.03 s			0.04 s		60.9 f
		0.02 s			0.03 s		6.8 f

End Accur. 36 ms Duration 305 ms
StDev 27 ms StDev 34 ms

60a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
824	1.09	0.09	924	0.95	0.06	T	100
1041	0.90	0.10	1113	1.01	0.01	E	72
1221	1.94	0.03	1315	1.93	0.04	T	94
1609	1.13	0.13	1701	1.13	0.13	T	92
1834	1.01	0.00	1927	0.99	0.01	T	93
2035	2.04	0.02	2125	2.08	0.04	T	90
2443	1.08	0.08	2540	1.00	0.01	T	97
2658	1.03	0.02	2739	1.05	0.04	E	81
2863	1.75	0.13	2948	1.85	0.08	T	85
3213	1.08	0.08	3317	1.01	0.00	T	104
3428	0.97	0.04	3518	1.03	0.03	T	90
3621	2.04	0.02	3724	2.04	0.02	T	103
4029	0.96	0.04	4132	0.93	0.08	T	103
4221	1.04	0.03	4317	1.06	0.05	T	96
4428	2.02	0.01	4528	1.94	0.03	T	100
4831	1.05	0.04	4916	1.01	0.01	T	85
5040	0.86	0.15	5118	0.95	0.05	T	78
5211			5308			T	97
		0.06 s			0.04 s		92.2 f
		0.04 s			0.03 s		9.1 f

60b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
443	1.09	0.09	539	1.01	0.00	T	96
661	1.00	0.00	740	1.06	0.05	E	79
861	2.05	0.02	951	2.04	0.02	T	90
1271	1.05	0.04	1359	1.04	0.04	T	88
1480	0.93	0.07	1567	0.96	0.04	T	87
1666	1.98	0.01	1759	2.02	0.01	T	93
2061	1.10	0.10	2162	1.01	0.00	T	101
2281	0.96	0.05	2363	0.98	0.02	E	82
2472	1.85	0.08	2559	1.91	0.05	T	87

2841	1.05	0.05	2940	1.04	0.04	T	99	
3051	0.93	0.08	3148	0.94	0.06	T	97	
3236	2.00	0.00	3336	2.03	0.01	T	100	
3636	1.08	0.08	3741	0.99	0.02	T	105	
3851	0.96	0.05	3938	0.99	0.02	T	87	
4042	1.99	0.01	4135	2.03	0.01	T	93	
4439	1.12	0.12	4541	1.02	0.01	T	102	
4662	0.97	0.03	4744	1.01	0.00	T	82	
4856			4945			T	89	
		0.05	s		0.02	s	92.1	f
		0.04	s		0.02	s	7.6	f

End accur.	32	ms	Duration	461	ms
StDev	26	ms	StDev	42	ms

72a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
414	1.12	0.12	508	1.02	0.02	T	94
601	0.95	0.05	678	1.03	0.03	E	77
759	1.82	0.09	849	1.90	0.05	T	90
1063	1.12	0.12	1165	1.04	0.04	T	102
1250	0.93	0.07	1339	0.94	0.06	T	89
1405	1.99	0.00	1496	1.99	0.00	T	91
1737	1.04	0.04	1828	0.97	0.03	T	91
1910	1.03	0.03	1990	1.07	0.07	E	80
2081	1.83	0.09	2169	1.88	0.06	T	88
2386	1.06	0.06	2483	1.05	0.05	T	97
2562	0.97	0.03	2658	0.97	0.03	T	96
2723	2.03	0.01	2819	2.03	0.02	T	96
3061	1.03	0.03	3158	0.97	0.03	T	97
3233	1.07	0.07	3320	1.07	0.07	T	87
3411	1.96	0.02	3498	1.99	0.01	T	87
3737	1.10	0.10	3829	1.01	0.01	T	92
3921	0.82	0.18	3997	0.97	0.03	T	76
4058			4158			T	100
		0.07 s			0.04 s		90.6 f
		0.05 s			0.02 s		7.4 f

72b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
453	1.19	0.19	548	1.03	0.03	T	95
651	0.83	0.17	719	0.96	0.04	E	68
790	1.87	0.06	879	1.95	0.03	T	89
1102	1.19	0.19	1204	1.05	0.05	T	102
1300	0.86	0.14	1379	0.95	0.05	T	79
1443	2.00	0.00	1538	1.95	0.03	T	95
1777	0.98	0.02	1863	1.03	0.03	T	86
1941	1.15	0.15	2034	1.05	0.05	E	93
2132	1.85	0.08	2209	1.91	0.04	T	77
2440	1.03	0.03	2528	1.03	0.03	T	88
2611	0.83	0.17	2699	0.91	0.09	T	88

2749	2.07	0.03	2851	2.06	0.03	T	102
3094	0.98	0.02	3195	1.02	0.02	T	101
3257	1.09	0.09	3365	0.98	0.02	T	108
3439	1.98	0.01	3528	2.00	0.00	T	89
3769	1.07	0.07	3862	1.02	0.02	T	93
3948	0.89	0.11	4032	0.97	0.03	T	84
4097			4193			T	96
		0.09 s			0.03 s		90.7 f
		0.07 s			0.02 s		9.9 f

End accur.	35 ms	Duration	453 ms
StDev	20 ms	StDev	43 ms

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
334	1.02	0.02	429	0.90	0.10	W	95
456	0.99	0.01	537	1.09	0.09	E	81
575	1.98	0.01	668	2.00	0.00	T	93
813	1.19	0.19	908	1.08	0.08	T	95
956	0.96	0.04	1037	1.01	0.01	W	81
1071	1.84	0.08	1158	1.96	0.02	T	87
1292	1.15	0.15	1393	0.93	0.07	W	101
1430	0.90	0.10	1505	1.03	0.03	E	75
1538	2.03	0.01	1629	2.00	0.00	W	91
1781	0.98	0.02	1869	1.06	0.06	T	88
1899	1.03	0.03	1996	0.93	0.07	W	97
2023	1.82	0.09	2108	1.99	0.00	T	85
2241	1.28	0.28	2347	1.09	0.09	W	106
2395	0.78	0.22	2478	0.92	0.08	T	83
2489	2.11	0.05	2588	2.08	0.04	T	99
2742	0.85	0.15	2838	0.90	0.10	W	96
2844	1.10	0.10	2946	0.95	0.05	W	102
2976			3060			T	84
		0.09 s			0.05 s		91.1 f
		0.08 s			0.04 s		8.5 f

End Accur. 52 ms Duration 455 ms
 StDev 36 ms StDev 43 ms

Male Subjects:**S1**

60a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
159	0.94	0.06	216	0.98	0.03	W	57
347	0.96	0.05	411	0.97	0.04	W	64
538	1.93	0.04	604	1.98	0.01	W	66
923	1.06	0.05	999	1.05	0.05	T	76
1134	1.02	0.02	1209	1.00	0.01	W	75
1338	1.94	0.03	1408	1.97	0.02	T	70
1726	1.10	0.10	1801	1.03	0.03	W	75
1946	1.08	0.08	2007	1.04	0.04	W	61
2162	1.80	0.10	2215	1.92	0.04	W	53
2522	1.02	0.02	2599	1.04	0.04	T	77
2726	0.99	0.01	2807	0.93	0.07	W	81
2924	2.03	0.01	2993	2.01	0.00	T	69
3330	1.00	0.01	3395	0.97	0.03	W	65
3529	0.94	0.06	3589	1.00	0.01	T	60
3717	2.04	0.02	3788	1.99	0.01	W	71
4125	1.01	0.00	4186	1.06	0.05	T	61
4326	1.01	0.00	4397	0.97	0.04	W	71
4527			4590			T	63
		0.04 s			0.03 s		67.5 f
		0.03 s			0.02 s		7.6 f

60b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
446	0.95	0.05	512	0.91	0.10	W	66
636	1.03	0.02	693	0.96	0.05	W	57
841	1.98	0.01	884	2.06	0.03	W	43
1237	1.02	0.02	1296	1.05	0.04	T	59
1441	0.99	0.02	1505	0.94	0.06	W	64
1638	1.99	0.01	1692	2.03	0.01	T	54
2035	1.10	0.10	2097	1.02	0.01	W	62
2255	0.96	0.05	2300	0.99	0.02	W	45

2446	1.95	0.03	2497	1.96	0.02	W	51
2836	0.98	0.02	2888	1.05	0.05	T	52
3032	1.00	0.00	3098	0.95	0.05	W	66
3232	1.99	0.01	3288	2.07	0.03	T	56
3630	1.04	0.03	3702	1.02	0.02	W	72
3837	0.94	0.06	3906	0.93	0.07	T	69
4025	2.02	0.01	4092	1.95	0.03	W	67
4429	1.02	0.01	4482	1.10	0.10	T	53
4632	1.00	0.01	4701	0.98	0.03	W	69
4831			4896			T	65
		0.03 s			0.04 s		59.4 f
		0.03 s			0.03 s		8.5 f

End accur.	36 ms	Duration	317 ms
StDev	23 ms	StDev	40 ms

72a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
342	1.07	0.07	410	1.01	0.01	W	68
520	1.09	0.09	578	1.03	0.03	W	58
701	1.69	0.15	749	1.80	0.10	W	48
983	1.11	0.11	1049	1.03	0.03	T	66
1168	0.89	0.11	1221	1.00	0.00	W	53
1317	1.99	0.00	1387	2.00	0.00	T	70
1649	1.02	0.02	1721	0.99	0.01	W	72
1819	1.19	0.19	1886	1.09	0.09	W	67
2017	1.65	0.18	2067	1.78	0.11	W	50
2292	1.07	0.07	2363	1.06	0.06	T	71
2471	1.00	0.00	2540	0.97	0.03	W	69
2637	2.02	0.01	2701	2.11	0.06	T	64
2974	1.10	0.10	3053	1.00	0.00	W	79
3158	0.95	0.05	3219	1.00	0.00	T	61
3316	2.04	0.02	3386	2.01	0.00	W	70
3656	1.01	0.01	3721	1.01	0.01	T	65
3825	1.02	0.02	3889	1.00	0.00	W	64
3995			4056			T	61
		0.07 s			0.03 s		64.2 f
		0.06 s			0.04 s		8.0 f

72b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
308	1.10	0.10	373	1.10	0.10	W	65
491	1.12	0.12	556	1.03	0.03	W	65
678	1.84	0.08	728	1.89	0.06	W	50
985	1.03	0.03	1043	1.05	0.05	T	58
1156	0.97	0.03	1218	0.97	0.03	W	62
1317	2.04	0.02	1379	2.02	0.01	T	62
1657	1.04	0.04	1715	1.01	0.01	W	58
1830	1.10	0.10	1883	1.06	0.06	W	53
2013	1.76	0.12	2059	1.85	0.07	W	46
2307	0.98	0.02	2368	1.00	0.00	T	61
2471	0.89	0.11	2535	0.94	0.06	W	64

2619	2.14	0.07	2692	2.04	0.02	T	73
2975	1.07	0.07	3032	1.06	0.06	W	57
3153	0.92	0.08	3209	0.95	0.05	T	56
3306	2.02	0.01	3368	1.96	0.02	W	62
3642	0.99	0.01	3694	1.10	0.10	T	52
3807	1.02	0.02	3877	0.89	0.11	W	70
3977			4026			T	49
		0.06 s			0.05 s		59.1 f
		0.04 s			0.03 s		7.3 f

End accur.	41 ms	Duration	308 ms
StDev	35 ms	StDev	38 ms

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
237	1.07	0.07	296	1.03	0.02	W	59
365	0.99	0.01	419	0.99	0.01	W	54
484	1.81	0.10	538	1.84	0.08	W	54
701	0.99	0.01	759	1.08	0.08	T	58
820	1.10	0.10	888	1.00	0.00	W	68
952	1.99	0.00	1008	2.08	0.04	T	56
1191	1.11	0.11	1257	1.08	0.08	W	66
1324	0.98	0.02	1386	0.92	0.08	W	62
1442	1.79	0.10	1496	1.93	0.03	W	54
1657	1.04	0.04	1728	1.03	0.02	T	71
1782	1.12	0.12	1851	1.01	0.01	W	69
1916	2.04	0.02	1972	2.01	0.00	T	56
2161	1.01	0.01	2213	1.03	0.02	W	52
2282	0.83	0.18	2336	0.90	0.10	T	54
2381	2.18	0.09	2444	2.12	0.06	W	63
2643	0.98	0.02	2698	1.07	0.07	T	55
2761	1.02	0.02	2826	1.01	0.01	W	65
2883			2947			T	64
		0.06 s			0.04 s		60.0 f
		0.05 s			0.03 s		6.1 f

End Accur. 42 ms Duration 300 ms
StDev 33 ms StDev 30 ms

60a

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
447	1.10	0.10	531	1.04	0.04	T	84
666	1.08	0.08	739	1.07	0.06	T	73
882	1.90	0.05	952	1.98	0.01	T	70
1262	1.08	0.08	1348	1.03	0.03	T	86
1477	0.89	0.11	1554	0.99	0.01	W	77
1655	2.10	0.05	1752	2.05	0.02	T	97
2074	1.00	0.00	2162	0.94	0.06	W	88
2274	0.89	0.12	2350	0.97	0.03	T	76
2451	2.08	0.04	2544	2.04	0.02	T	93
2866	0.92	0.08	2951	0.99	0.01	T	85
3050	1.04	0.03	3149	1.03	0.03	W	99
3257	2.11	0.05	3355	2.00	0.00	T	98
3678	0.98	0.02	3754	0.96	0.05	W	76
3874	1.10	0.10	3945	1.05	0.05	T	71
4093	1.86	0.07	4155	1.94	0.03	T	62
4465	1.08	0.08	4542	1.04	0.04	T	77
4680	0.95	0.06	4750	1.03	0.03	W	70
4869			4956			T	87
		0.06 s			0.03 s		81.6 f
		0.03 s			0.02 s		10.8 f

60b

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
471	1.02	0.01	553	1.00	0.01	T	82
674	1.07	0.07	752	0.99	0.01	T	78
888	1.81	0.10	950	1.95	0.03	T	62
1249	1.14	0.14	1339	1.03	0.02	T	90
1476	0.82	0.18	1544	1.00	0.01	W	68
1640	2.18	0.09	1743	2.09	0.04	T	103
2075	1.03	0.02	2160	0.95	0.06	W	85
2280	0.82	0.19	2349	0.95	0.06	T	69
2443	2.17	0.08	2538	2.13	0.06	T	95

2876	0.99	0.02	2963	1.01	0.00	W	87
3073	0.93	0.07	3164	0.95	0.05	W	91
3259	2.06	0.03	3354	1.94	0.03	T	95
3670	0.98	0.03	3742	0.94	0.06	W	72
3865	1.08	0.08	3930	1.11	0.11	T	65
4081	1.94	0.03	4151	1.99	0.01	T	70
4469	1.02	0.02	4549	0.97	0.03	T	80
4673	0.96	0.04	4743	1.01	0.00	W	70
4865			4944			T	79
		0.07 s			0.03 s		80.1 f
		0.05 s			0.03 s		11.8 f

End accur.	33 ms	Duration	404 ms
StDev	23 ms	StDev	57 ms

72a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
323	1.06	0.06	407	0.95	0.05	T	84
500	0.97	0.03	565	1.00	0.00	T	65
661	1.80	0.10	731	1.96	0.02	T	70
961	1.13	0.13	1058	1.01	0.01	T	97
1150	0.98	0.02	1227	1.09	0.09	W	77
1313	2.17	0.09	1408	2.03	0.02	T	95
1675	0.96	0.04	1747	0.92	0.08	W	72
1835	0.77	0.23	1901	0.95	0.05	T	66
1963	2.10	0.05	2060	2.05	0.02	T	97
2313	0.91	0.09	2401	0.95	0.05	T	88
2464	1.04	0.04	2559	1.01	0.01	W	95
2638	2.14	0.07	2728	2.05	0.02	T	90
2994	0.86	0.14	3069	0.93	0.07	W	75
3138	1.09	0.09	3224	1.05	0.05	T	86
3320	1.85	0.07	3399	1.95	0.03	T	79
3629	1.24	0.24	3724	1.04	0.04	T	95
3835	0.85	0.15	3898	0.98	0.02	W	63
3977			4061			T	84
		0.10 s			0.04 s		82.1 f
		0.06 s			0.02 s		11.7 f

72b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
277	1.06	0.06	358	0.98	0.02	T	81
453	0.86	0.14	521	1.00	0.00	T	68
596	1.97	0.01	688	1.97	0.02	T	92
925	1.03	0.03	1016	0.98	0.02	T	91
1097	1.01	0.01	1180	1.06	0.06	W	83
1265	2.15	0.07	1357	2.03	0.02	T	92
1623	1.00	0.00	1696	0.93	0.07	W	73
1789	0.82	0.18	1851	0.98	0.02	T	62
1926	2.01	0.00	2014	2.00	0.00	T	88
2261	0.96	0.04	2347	0.99	0.01	T	86
2421	1.02	0.02	2512	1.03	0.03	W	91

2591	2.11	0.05	2684	2.01	0.00	T	93
2942	1.11	0.11	3019	0.98	0.02	W	77
3127	0.98	0.02	3183	1.00	0.00	T	56
3291	1.90	0.05	3350	1.99	0.01	T	59
3608	1.01	0.01	3681	0.97	0.03	T	73
3776	0.82	0.18	3842	1.01	0.01	W	66
3912			4011			T	99
		0.06 s			0.02 s		79.4 f
		0.06 s			0.02 s		13.2 f

End accur.	29 ms	Duration	404 ms
StDev	22 ms	StDev	62 ms

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
432	0.90	0.10	503	0.95	0.05	T	71
540	1.07	0.07	617	0.96	0.04	T	77
668	1.75	0.13	732	1.98	0.01	T	64
878	1.10	0.10	969	0.95	0.05	T	91
1010	0.88	0.13	1083	0.98	0.02	W	73
1115	2.30	0.15	1201	2.22	0.11	T	86
1391	0.96	0.04	1467	1.01	0.01	W	76
1506	0.88	0.12	1588	0.88	0.12	T	82
1612	2.13	0.06	1694	2.06	0.03	T	82
1867	0.90	0.10	1941	0.94	0.06	T	74
1975	0.88	0.13	2054	0.98	0.02	W	79
2080	2.26	0.13	2172	2.11	0.05	T	92
2351	0.93	0.07	2425	0.84	0.16	W	74
2463	0.88	0.12	2526	1.01	0.01	T	63
2569	2.03	0.01	2647	1.98	0.01	T	78
2812	1.01	0.01	2885	0.99	0.01	T	73
2933	0.83	0.18	3004	1.03	0.03	W	71
3032			3128			T	96
		0.10 s			0.05 s		77.9 f
		0.05 s			0.04 s		9.0 f

End Accur.	46 ms	Duration	389 ms
StDev	44 ms	StDev	45 ms

60a

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
332	1.05	0.05	403	0.98	0.02	W	71
542	0.99	0.01	599	1.01	0.01	E	57
740	2.11	0.05	801	2.16	0.08	E	61
1162	0.92	0.08	1233	0.99	0.02	T	71
1346	0.93	0.07	1430	0.84	0.17	W	84
1532	2.02	0.01	1597	2.03	0.03	T	65
1935	1.13	0.13	2003	1.03	0.03	W	68
2161	0.96	0.04	2209	1.02	0.02	E	48
2353	1.96	0.02	2413	1.98	0.02	E	60
2744	0.99	0.02	2809	0.99	0.01	T	65
2941	1.02	0.02	3007	1.01	0.01	W	66
3145	2.01	0.00	3209	2.03	0.03	T	64
3546	0.96	0.04	3615	0.98	0.03	W	69
3738	1.01	0.00	3810	0.96	0.04	T	72
3939	2.17	0.09	4002	2.21	0.21	W	63
4373	0.84	0.16	4443	0.82	0.19	T	70
4541	1.02	0.02	4606	1.02	0.01	W	65
4745			4809			T	64
		0.05 s			0.05 s		65.7 f
		0.05 s			0.07 s		7.4 f

60b

Begin	tme interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
314	1.03	0.02	380	0.99	0.01	W	66
519	0.96	0.04	578	1.02	0.01	E	59
711	2.04	0.02	781	2.06	0.03	E	70
1118	1.12	0.12	1192	1.19	0.19	T	74
1341	0.90	0.10	1429	0.79	0.21	W	88
1521	2.14	0.07	1587	2.04	0.04	T	66
1949	0.89	0.11	1994	0.97	0.03	W	45
2127	0.97	0.03	2188	1.01	0.00	E	61
2321	2.01	0.00	2389	1.98	0.02	E	68

2723	0.85	0.15	2785	0.89	0.11	T	62
2893	1.21	0.21	2963	1.18	0.18	W	70
3134	1.96	0.02	3199	1.95	0.05	T	65
3525	0.97	0.03	3589	1.00	0.01	W	64
3719	0.95	0.06	3788	0.99	0.01	T	69
3908	2.01	0.00	3986	1.96	0.04	W	78
4309	1.00	0.00	4378	0.99	0.01	T	69
4509	0.99	0.01	4576	1.03	0.02	W	67
4707			4781			T	74
		0.06 s			0.06 s		67.5 f
		0.06 s			0.07 s		8.8 f

End accur.	55 ms	Duration	333 ms
StDev	67 ms	StDev	40 ms

72a

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
566	0.99	0.01	629	0.97	0.03	W	63
731	0.99	0.01	791	1.01	0.01	E	60
896	2.09	0.04	959	2.09	0.05	E	63
1244	1.01	0.01	1308	1.01	0.01	T	64
1412	1.03	0.03	1476	1.21	0.21	W	64
1583	2.05	0.02	1677	1.93	0.07	T	94
1924	0.99	0.01	1998	0.94	0.06	W	74
2089	1.03	0.03	2154	1.01	0.01	E	65
2260	2.02	0.01	2322	1.99	0.01	E	62
2596	0.98	0.02	2653	1.00	0.00	T	57
2760	1.01	0.01	2819	1.01	0.01	W	59
2928	1.93	0.04	2988	1.93	0.07	T	60
3249	0.95	0.05	3309	0.95	0.05	W	60
3407	0.99	0.01	3467	0.98	0.02	T	60
3572	2.00	0.00	3630	2.03	0.03	W	58
3906	1.01	0.01	3969	0.99	0.01	T	63
4075	0.98	0.02	4134	1.00	0.00	W	59
4239			4301			T	62
		0.02 s			0.04 s		63.7 f
		0.01 s			0.05 s		8.4 f

72b

Begin	tme		End	time		initiator	Number of frames at 200 f/s
	interval between shift beginnings (s)	error in shift beginning accuracy (s)		interval between shift endings	error in shift ending accuracy (s)		
464	0.97	0.03	524	0.95	0.05	W	60
625	0.96	0.04	683	0.98	0.02	E	58
785	2.11	0.05	847	2.12	0.06	E	62
1136	0.97	0.03	1200	1.01	0.01	T	64
1298	0.94	0.06	1369	1.02	0.02	W	71
1454	2.11	0.06	1539	1.99	0.01	T	85
1806	0.98	0.02	1871	0.96	0.04	W	65
1970	1.01	0.01	2031	1.01	0.01	E	61
2139	2.00	0.00	2199	2.04	0.04	E	60
2473	0.85	0.15	2539	0.81	0.19	T	66
2615	1.09	0.09	2674	1.03	0.03	W	59

2797	1.94	0.03	2846	1.99	0.01	T	49
3120	0.97	0.03	3178	1.00	0.00	W	58
3282	0.96	0.04	3345	0.97	0.03	T	63
3442	2.01	0.00	3507	2.02	0.02	W	65
3777	1.03	0.03	3843	1.02	0.02	T	66
3948	0.96	0.04	4013	0.99	0.01	W	65
4108			4178			T	70
		0.04 s			0.03 s		63.7 f
		0.04 s			0.04 s		7.3 f

End accur.	36 ms	Duration	319 ms
StDev	46 ms	StDev	39 ms

Begin	time interval between shift beginnings (s)	error in shift beginning accuracy (s)	End	time interval between shift endings	error in shift ending accuracy (s)	initiator	Number of frames at 200 f/s
297	1.03	0.02	356	0.98	0.03	W	59
420	1.02	0.02	473	1.03	0.03	E	53
542	2.11	0.05	597	2.03	0.01	E	55
795	1.02	0.02	840	1.07	0.07	T	45
917	0.98	0.02	968	1.03	0.02	W	51
1035	2.05	0.05	1091	2.09	0.09	T	56
1281	0.98	0.03	1342	0.92	0.08	W	61
1398	1.00	0.00	1452	1.07	0.07	E	54
1518	2.08	0.08	1580	2.13	0.13	E	62
1767	0.89	0.11	1836	0.82	0.18	T	69
1874	0.94	0.06	1934	0.97	0.03	W	60
1987	2.08	0.08	2050	2.09	0.09	T	63
2237	1.01	0.01	2301	0.99	0.01	W	64
2358	0.99	0.01	2420	0.98	0.02	T	62
2477	2.15	0.15	2538	2.12	0.12	W	61
2735	0.93	0.07	2792	1.07	0.07	T	57
2847	1.04	0.04	2920	0.89	0.11	W	73
2972			3027			T	55
		0.05 s			0.07 s		58.9 f
		0.04 s			0.05 s		6.6 f

End Accur.	68 ms	Duration	294 ms
StDev	49 ms	StDev	33 ms