

Table 1. Average values of technical characteristics and routines at t=60 in 20 simulation runs (12 firms, initial products (5,10))

	z_1	z_2	r_1	r_2	r_3	r_4	r_5	r_6	r_7	r_8	r_9	r_{10}
<i>Initial state/ no run</i>	5.00	10.00	100.00	1.00	150.00	35.00	60.00	75.00	10.00	25.00	40.00	20.00
1	16.13	20.33	112.07	1.00	193.04	67.00	156.60	89.95	11.75	42.86	69.43	21.53
2	16.37	19.70	101.04	1.00	232.16	54.43	127.44	87.58	12.78	22.68	61.73	21.27
3	15.91	19.89	117.99	1.00	214.14	39.69	144.28	78.95	10.00	32.54	48.54	23.73
4	15.82	20.23	126.26	4.91	190.46	55.27	141.68	85.80	10.55	30.91	44.01	20.97
5	16.67	20.46	122.40	16.70	223.12	43.60	127.52	89.59	10.59	25.00	45.20	19.98
6	15.13	20.45	105.50	1.00	231.27	50.10	133.52	87.16	11.78	31.20	48.01	20.00
7	16.07	19.41	122.60	22.22	222.74	90.06	111.23	84.83	26.59	31.93	42.89	22.85
8	15.31	19.64	101.51	1.00	232.68	69.60	126.43	77.38	10.00	30.70	40.00	22.26
9	15.15	19.54	101.08	1.00	242.43	51.80	121.49	80.93	11.39	26.22	41.99	20.20
10	15.57	20.14	103.49	1.00	227.44	44.80	133.80	76.56	11.44	25.62	49.42	21.73
11	15.60	20.49	105.49	1.00	233.75	62.70	130.00	78.08	21.05	28.70	45.34	20.43
12	16.12	20.74	112.38	9.17	207.67	62.71	137.94	75.98	14.27	28.71	48.08	21.77
13	16.10	21.11	120.99	20.55	219.97	46.45	126.07	83.75	15.08	23.57	42.35	20.74
14	15.57	19.78	123.67	1.00	205.69	46.00	135.64	89.99	10.33	29.07	43.21	20.00
15	15.76	20.44	104.41	1.00	240.57	40.04	128.70	75.60	10.92	20.10	44.04	24.87
16	16.18	19.99	122.88	11.64	218.11	51.87	135.58	89.49	12.58	35.73	48.19	20.90
17	15.34	21.23	110.68	29.49	214.30	53.49	124.23	77.10	10.97	26.99	42.25	18.96
18	15.56	19.29	100.01	1.00	242.91	66.60	122.55	81.52	11.34	30.89	43.05	20.20
19	15.12	20.53	105.09	1.00	194.86	63.65	146.92	62.74	10.00	30.61	46.35	26.01
20	15.88	19.58	102.40	1.00	221.96	55.24	139.87	80.30	15.28	34.95	62.23	20.00

Table 2. Average values of technical characteristics and routines at $t=150$ in 20 simulation runs (12 firms, initial products (5,10))

	Z_1	Z_2	r_1	r_2	r_3	r_4	r_5	r_6	r_7	r_8	r_9	r_{10}
Initial state/ no run	5.00	10.00	100.00	1.00	150.00	35.00	60.00	75.00	10.00	25.00	40.00	20.00
1	35.67	38.18	168.15	90.59	244.52	121.26	240.08	89.66	10.94	32.69	58.44	21.07
2	36.27	40.42	100.99	127.05	244.51	76.34	234.93	114.95	19.82	3.16	196.69	22.62
3	30.26	34.55	133.27	127.03	248.02	86.26	214.15	27.52	16.56	41.02	70.95	33.37
4	36.18	40.14	145.57	93.11	239.19	161.90	223.17	77.14	12.88	6.04	58.21	26.21
5	36.09	39.86	132.30	81.97	244.70	128.84	242.95	45.10	28.79	10.21	67.86	19.61
6	34.89	39.09	104.96	74.37	246.14	90.25	247.05	68.61	10.00	12.06	91.67	1.48
7	35.52	39.84	124.82	45.16	245.80	220.78	245.99	79.39	11.04	25.15	48.70	25.06
8	32.13	36.33	118.62	54.44	248.05	158.71	228.92	41.40	12.41	23.33	40.22	26.87
9	35.30	39.42	108.19	15.91	247.69	237.44	248.25	95.75	16.35	16.69	78.02	31.08
10	34.09	38.90	101.67	57.98	243.93	223.42	242.62	60.03	32.98	32.51	84.20	24.93
11	35.08	39.32	119.42	16.60	247.01	186.92	242.83	81.30	21.90	1.89	61.65	24.40
12	35.65	39.85	122.74	42.59	242.73	179.92	241.28	85.55	22.17	11.76	60.23	8.61
13	35.61	39.97	132.99	39.37	247.41	191.53	243.61	89.63	19.29	15.88	53.80	19.50
14	34.42	38.22	123.60	163.40	248.74	221.95	185.00	35.27	14.36	32.87	45.55	26.70
15	35.81	39.49	94.04	8.88	246.41	205.11	248.91	79.51	10.10	2.79	64.41	13.24
16	35.73	39.28	123.00	113.04	244.64	165.57	241.00	22.30	33.30	31.91	76.38	27.05
17	35.07	39.86	109.76	48.45	246.73	215.55	242.01	78.43	15.66	27.02	50.25	7.19
18	36.18	39.75	99.73	61.16	245.70	181.81	247.05	20.14	40.02	14.48	60.49	7.54
19	35.75	39.13	110.37	65.31	241.18	200.33	246.10	90.65	2.05	30.74	81.51	16.87
20	35.94	40.43	147.16	1.24	243.28	233.47	241.53	82.54	17.57	2.13	103.33	26.06

Table 3. Firms characteristics (run 1)

Firm no.	market share	Price	Compet.	Tech. comp.	Prod. of capital	Unit cost	z_1	z_2
t=60								
6	0.2502	5.5787	1.464	0.986	0.1050	3.4457	15.85	19.10
2	0.1646	5.3780	1.506	0.942	0.1510	3.7570	17.01	21.50
6	0.1616	5.5029	1.428	0.935	0.1297	3.8972	17.46	19.10
27	0.0527	5.5934	1.477	0.999	0.1371	3.8952	15.19	19.65
35	0.0380	5.4221	1.490	0.947	0.1470	3.7689	17.22	19.20
21	0.0308	5.3735	1.401	0.875	0.1640	4.2955	14.93	23.70
29	0.0250	5.5912	1.442	0.975	0.1388	4.0544	13.43	20.35
22	0.0249	5.5206	1.419	0.935	0.1383	4.1672	12.58	20.95
t=150								
27	0.1828	4.6526	4.845	2.268	0.1545	3.1527	37.73	38.49
13	0.1354	4.7380	4.979	2.417	0.1878	3.4923	36.63	39.15
1	0.1294	4.7639	4.896	2.403	0.1887	3.5593	36.36	38.54
12	0.1070	4.8795	4.813	2.478	0.1876	3.5856	34.59	39.15
27	0.0901	5.0254	4.500	2.458	0.1839	3.8870	36.31	40.05
27	0.0549	5.0836	4.349	2.430	0.1937	4.4464	36.31	38.94
27	0.0395	3.1607	4.244	0.917	0.1364	3.6132	17.99	19.95
6 (new)	0.0053	4.6637	5.145	2.420	0.1890	3.5368	35.45	38.25

Table 4. Routines (run 1)

Form no.	r_1	r_2	r_3	r_4	r_5	r_6	r_7	r_8	r_9	r_{10}
t=60										
6	118	1	201	106	166	116	17	79	84	20
2	100	1	183	35	166	75	10	25	84	20
6	118	1	188	84	136	88	10	27	56	20
27	100	1	196	62	135	75	10	25	56	20
35	118	1	188	35	166	88	10	43	84	20
21	122	1	169	35	166	75	10	25	40	20
29	100	1	198	62	129	75	10	25	40	20
22	100	1	183	62	133	75	10	25	40	20
t= 150										
27	169	84	247	207	249	101	15	54	56	22
13	169	84	245	104	249	97	10	25	68	20
1	169	86	245	110	244	83	10	25	56	22
12	169	84	245	104	249	95	10	35	56	20
27	169	129	249	110	231	79	10	28	56	20
27	201	147	248	66	218	97	10	25	56	22
27	100	1	220	79	137	75	10	25	56	20
6 (new)	169	84	247	104	249	86	10	35	56	20

Table 5. Routines in the radical innovation of firm 27 at t=90

Form no.	r_1	r_2	r_3	r_4	r_5	r_6	r_7	r_8	r_9	r_{10}
27 ('old' unit)	100	1	220	62	137	75	10	25	56	20
27 (first unit)	201	84	220	56	218	79	10	25	56	20
27(snd unit)	169	84	220	56	218	79	10	25	56	20

Table 6. Economic characteristics of the radical innovation of firm 27 at t=90

Firm no.	market share	Price	Compet.	Tech. comp.	Prod. of capital	Unit cost	z_1	z_2
27 ('old' unit)	0.0951	5.2482	1.618	0.964	0.1420	3.6951	16.97	19.95
27 (first unit)	0.0086	3.9679	3.098	1.055	0.1949	4.0910	35.49	30.70
27(snd unit)	0.0039	5.1363	2.530	1.443	0.1897	4.0910	30.69	33.90