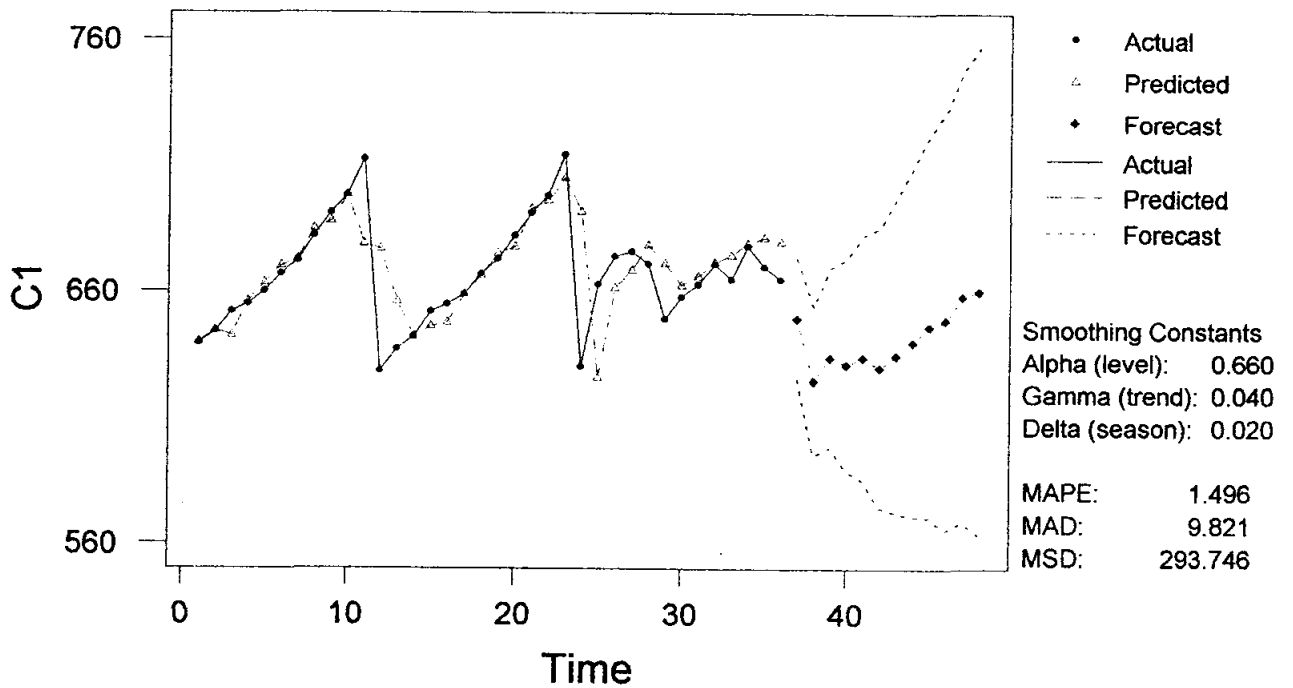


LAMPIRAN

LAMPIRAN 1. Forecast dengan Metode Winters' Multiplicative

Winters' Multiplicative Model for C1



Worksheet size: 100000 cells

Retrieving worksheet from file: C:\MTBWIN\DATA\Skripsi.mtw
Worksheet was saved on 9/ 6/2001

Macro is running ... please wait

Winters' multiplicative model

Data C1
Length 36.0000
NMissing 0

Smoothing Constants
Alpha (level): 0.66
Gamma (trend): 0.04
Delta (seasonal): 0.02

Accuracy Measures
MAPE: 1.496
MAD: 9.821
MSD: 293.746

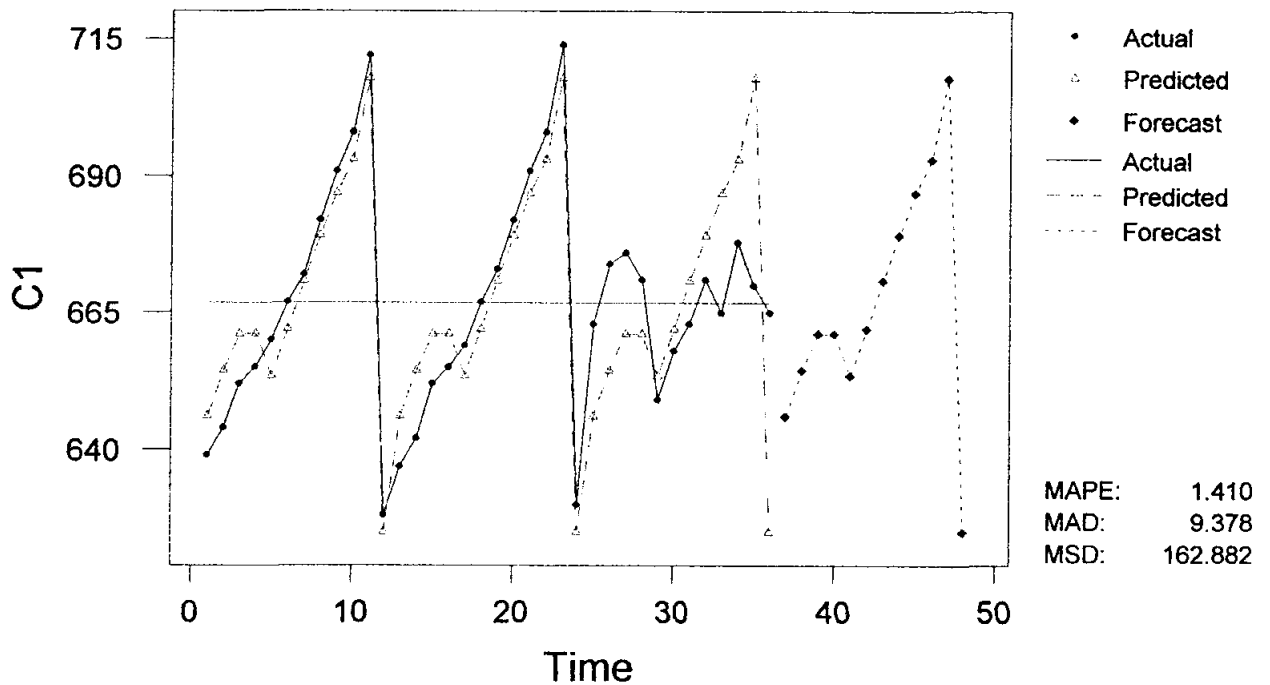
Row	Time	C1	Smooth	Predict	Error
1	1	639	637.768	639.674	-0.6744
2	2	644	642.413	644.311	-0.3109
3	3	652	640.433	642.312	9.6883
4	4	655	653.919	656.070	-1.0704
5	5	660	661.255	663.397	-3.3974
6	6	667	668.040	670.114	-3.1138
7	7	672	670.630	672.630	-0.6302
8	8	682	682.773	684.787	-2.7868
9	9	691	685.527	687.475	3.5249
10	10	698	695.743	697.802	0.1983
11	11	712	676.956	678.958	33.0420
12	12	628	673.988	676.753	-48.7527
13	13	637	654.471	655.971	-18.9707
14	14	642	640.818	641.813	0.1872
15	15	652	645.136	646.141	5.8589
16	16	655	646.369	647.522	7.4776
17	17	659	657.626	658.988	0.0124
18	18	667	664.904	666.277	0.7227
19	19	673	673.699	675.107	-2.1065
20	20	682	676.327	677.684	4.3161
21	21	691	691.207	692.701	-1.7007
22	22	698	694.234	695.688	2.3115
23	23	714	703.196	704.725	9.2749
24	24	630	689.702	691.423	-61.4225
25	25	663	625.490	625.585	37.4147
26	26	674	660.469	661.569	12.4312
27	27	676	667.169	668.591	7.4088
28	28	671	676.878	678.505	-7.5046
29	29	649	669.792	671.213	-22.2126
30	30	658	661.702	662.542	-4.5425
31	31	663	665.462	666.189	-3.1889
32	32	671	670.982	671.632	-0.6316
33	33	665	673.859	674.494	-9.4945
34	34	678	678.669	679.059	-1.0594
35	35	670	680.992	681.356	-11.3559
36	36	665	679.688	679.753	-14.7529

Row	Period	Forecast	Lower	Upper
1	37	649.296	625.235	673.357
2	38	624.307	594.626	653.987
3	39	633.614	597.800	669.428
4	40	630.811	588.574	673.048
5	41	633.590	584.754	682.426
6	42	629.651	574.102	685.199
7	43	634.397	572.059	696.735

8	44	639.787	570.606	708.968
9	45	646.135	570.071	722.199
10	46	648.307	565.330	731.283
11	47	658.172	568.261	748.083
12	48	660.335	563.470	757.199

LAMPIRAN 2. Forecast dengan Metode Decomposition

Decomposition Fit for C1



Worksheet size: 100000 cells

Retrieving worksheet from file: C:\MTBWIN\DATA\Skripsi.mtw
Worksheet was saved on 9/ 6/2001

Macro is running ... please wait

Time Series Decomposition

Data C1
Length 36.0000
NMissing 0

Seasonal Indices

Period	Index
1	0.968933
2	0.981459
3	0.991589
4	0.991546
5	0.979996
6	0.992886
7	1.00615
8	1.01865
9	1.03037
10	1.03953
11	1.06170
12	0.937194

Accuracy of Model

MAPE: 1.410
MAD: 9.378
MSD: 162.882

Row	C1	Trend	Seasonal	Detrend	Deseason	Model	Error
1	639	666.75	0.96893	0.95838	659.488	646.036	-7.0361
2	644	666.75	0.98146	0.96588	656.166	654.387	-10.3875
3	652	666.75	0.99159	0.97788	657.531	661.142	-9.1417
4	655	666.75	0.99155	0.98238	660.585	661.113	-6.1130
5	660	666.75	0.98000	0.98988	673.472	653.412	6.5878
6	667	666.75	0.99289	1.00037	671.779	662.007	4.9932
7	672	666.75	1.00615	1.00787	667.894	670.849	1.1513
8	682	666.75	1.01865	1.02287	669.513	679.185	2.8146
9	691	666.75	1.03037	1.03637	670.631	687.001	3.9991
10	698	666.75	1.03953	1.04687	671.457	693.107	4.8934
11	712	666.75	1.06170	1.06787	670.624	707.887	4.1128
12	628	666.75	0.93719	0.94188	670.086	624.874	3.1262
13	637	666.75	0.96893	0.95538	657.424	646.036	-9.0361
14	642	666.75	0.98146	0.96288	654.128	654.387	-12.3875
15	652	666.75	0.99159	0.97788	657.531	661.142	-9.1417
16	655	666.75	0.99155	0.98238	660.585	661.113	-6.1130
17	659	666.75	0.98000	0.98838	672.452	653.412	5.5878
18	667	666.75	0.99289	1.00037	671.779	662.007	4.9932
19	673	666.75	1.00615	1.00937	668.888	670.849	2.1513
20	682	666.75	1.01865	1.02287	669.513	679.185	2.8146
21	691	666.75	1.03037	1.03637	670.631	687.001	3.9991
22	698	666.75	1.03953	1.04687	671.457	693.107	4.8934
23	714	666.75	1.06170	1.07087	672.508	707.887	6.1128
24	630	666.75	0.93719	0.94488	672.220	624.874	5.1262
25	663	666.75	0.96893	0.99438	684.258	646.036	16.9639
26	674	666.75	0.98146	1.01087	686.733	654.387	19.6125
27	676	666.75	0.99159	1.01387	681.734	661.142	14.8583
28	671	666.75	0.99155	1.00637	676.721	661.113	9.8870
29	649	666.75	0.98000	0.97338	662.248	653.412	-4.4122
30	658	666.75	0.99289	0.98688	662.714	662.007	-4.0068
31	663	666.75	1.00615	0.99438	658.949	670.849	-7.8487
32	671	666.75	1.01865	1.00637	658.714	679.185	-8.1854
33	665	666.75	1.03037	0.99738	645.398	687.001	-22.0009

34	678	666.75	1.03953	1.01687	652.218	693.107	-15.1066
35	670	666.75	1.06170	1.00487	631.065	707.887	-37.8872
36	665	666.75	0.93719	0.99738	709.565	624.874	40.1262

Forecasts

Row	Period	Forecast
1	37	646.036
2	38	654.387
3	39	661.142
4	40	661.113
5	41	653.412
6	42	662.007
7	43	670.849
8	44	679.185
9	45	687.001
10	46	693.107
11	47	707.887
12	48	624.874

LAMPIRAN 3. Tabel Waktu Kerusakan Mesin Bubut dan CNC

TABEL WAKTU KERUSAKAN MESIN BUBUT DAN CNC

BULAN	TAHUN 1998												TAHUN 1999												TAHUN 2000											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
MESIN BUBUT	750	950	980	850	760	995	885	785	790	775	985	995	785	750	610	865	835	990	1050	1000	975	960	880	750	785	795	1010	955	855	965	945	755	1000	960	970	930
MESIN CNC	1480	840	805	1250	1640	1059	895	1065	1960	2105	1465	580	1865	1580	1185	2000	515	1660	1490	990	905	915	1230	1365	1440	1755	980	545	1140	1035	1185	995	1350	1590	925	1743
TOTAL WAKTU	2230	1790	1795	2100	2400	2054	1780	1850	2750	2880	2450	2660	2650	2330	1995	2865	1350	2650	2540	1990	1880	1875	2110	2225	2550	1990	1500	1995	2000	2110	1750	2350	2550	1895	2673	

LAMPIRAN 4. Anggaran Biaya Overhead dan Biaya Perawatan/Bulan Untuk Mesin Bubut dan CNC

**ANGGARAN BIAYA OVERHEAD/ BULAN
MESIN BUBUT DAN MESIN CNC**

NO	KOMPONEN BIAYA	ANGGARAN (Rp)
I	Biaya persediaan	
	a. Suku cadang	100,000.00
	b. Tools	100,000.00
	c. Cooler	75,000.00
	Total	275,000.00
II	Biaya upah tenaga kerja pengawasan (supervising)	150,000.00
III	Biaya listrik	
	a. Mesin bubut	125,000.00
	b. Mesin CNC	125,000.00
	c. Lampu penerangan	100,000.00
	Total	350,000.00
IV	Biaya kesejahteraan operator	75,000.00
V	Biaya asuransi kecelakaan kerja	100,000.00
	Total biaya overhead	950,000.00

**BIAYA PERAWATAN/ BULAN
MESIN BUBUT DAN MESIN CNC**

NO	KOMPONEN BIAYA	ANGGARAN (Rp)
1	Oli mesin	125,000.00
2	Oli pelumas	75,000.00
3	Ban karet	50,000.00
4	Stampede	30,000.00
	Total	280,000.00

LAMPIRAN 5. Tabel Golongan Tarif Penyusutan

Tabel Golongan Tarif Penyusutan

Golongan	Jenis Usaha	Jenis Aktiva
1	Umum	Mebel, meja, bangku, kursi, lemari dari rotan kayu, mobil, sepeda motor, sepeda, becak, truk ringan, forklift
1	Industri makanan dan minuman	Huller, pemecah kulit, penyosoh, pengering
1	Perhubungan, pergudangan dan komunikasi	pallet, container, kota kart Mobil taksi, minibus
2	Umum	AC, kipas angin
2	Perhubungan dan komunikasi	Mesin tik, mesin hitung, duplikator, mesin photocopy, accounting machine Truk berat, mobil tangki, bus pegawai
2	Konstruksi	Kapal penumpang, kapal barang, kapal tangki, kapal curah, kapal suar, kapal keruk yang mempunyai berat kurang dari 100 DWT Truk berat, trailer, dump truk, crane, bulldozer
3	Industri makanan dan minuman	Mesin-mesin yang mengolah hasil peternakan dan perikanan, misalnya pabrik susu, pengalengan ikan
3	Perhubungan dan komunikasi	Lokomotif uap, diesel dan listrik Kapal penumpang, kapal barang, kapal tangki, kapal curah, kapal suar, kapal keruk yang mempunyai berat 100 DWT atau lebih
3	Lain-lain	Pesawat-pesawat terbang, helikopter segala jenis Mesin-mesin dan peralatan-peralatan lainnya yang tak jelas batasannya
4		Pangunan, jalan, trotoar, saluran, dermaga, kolam renang, lapangan tenis, lapangan golf

Tabel Penyusutan

Golongan	Masa Manfaat	% Penyusutan	Metode yang Dipakai
1	4 tahun	50%	Dihitung dari nilai buku
2	4 - 8 tahun	25%	(Saldo Penurunan Ganda)
3	8 tahun	10%	Double Declining Balance)
4	Bangunan dan aktiva tak gerak lainnya	5%	Dihitung dari harga perolehan (Metode Garis Lurus)

LAMPIRAN 6. Tabel Nilai Sekarang (Present Value)

Tabel A.2. Nilai Sekarang (Present Value) dari \$1 yang Dibayarkan pada Akhir n Periode:
 $PV = \frac{1}{(1+i)^n}$

Periode (n)	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%	24%	28%	32%	36%	40%
1	0,9804	0,9709	0,9615	0,9524	0,9434	0,9346	0,9259	0,9174	0,9091	0,9009	0,8929	0,8850	0,8772	0,8695	0,8619	0,8544	0,8470	0,8397	0,8325	0,8165	0,7999	0,7833	0,7666	0,7500
2	0,9603	0,9412	0,9226	0,9046	0,8871	0,8700	0,8534	0,8372	0,8213	0,8058	0,7906	0,7757	0,7611	0,7468	0,7327	0,7188	0,7052	0,6918	0,6786	0,6530	0,6274	0,6018	0,5762	0,5506
3	0,9406	0,9123	0,8850	0,8587	0,8334	0,8090	0,7855	0,7628	0,7408	0,7194	0,6986	0,6783	0,6585	0,6392	0,6203	0,6018	0,5837	0,5660	0,5487	0,5130	0,4874	0,4618	0,4362	0,4106
4	0,9210	0,8838	0,8476	0,8124	0,7781	0,7447	0,7122	0,6805	0,6496	0,6194	0,5900	0,5613	0,5333	0,5060	0,4794	0,4535	0,4282	0,4035	0,3793	0,3340	0,3084	0,2828	0,2572	0,2316
5	0,9016	0,8556	0,8104	0,7661	0,7227	0,6802	0,6385	0,5976	0,5574	0,5179	0,4791	0,4410	0,4037	0,3671	0,3312	0,2960	0,2615	0,2276	0,1943	0,1410	0,1154	0,0898	0,0642	0,0386
6	0,8824	0,8276	0,7834	0,7400	0,6974	0,6555	0,6144	0,5741	0,5345	0,4956	0,4573	0,4196	0,3825	0,3460	0,3101	0,2748	0,2401	0,2060	0,1725	0,1192	0,0936	0,0680	0,0424	0,0168
7	0,8633	0,8000	0,7569	0,7147	0,6733	0,6326	0,5926	0,5533	0,5146	0,4765	0,4390	0,4021	0,3658	0,3301	0,2949	0,2602	0,2260	0,1923	0,1591	0,1058	0,0802	0,0546	0,0290	0,0034
8	0,8444	0,7734	0,7314	0,6900	0,6493	0,6092	0,5697	0,5308	0,4924	0,4546	0,4173	0,3806	0,3444	0,3087	0,2735	0,2388	0,2046	0,1709	0,1377	0,0844	0,0588	0,0332	0,0076	0,0020
9	0,8256	0,7470	0,7061	0,6658	0,6261	0,5870	0,5485	0,5106	0,4733	0,4365	0,3999	0,3637	0,3280	0,2928	0,2581	0,2239	0,1899	0,1563	0,1231	0,0698	0,0442	0,0186	0,0030	0,0004
10	0,8069	0,7207	0,6809	0,6416	0,6028	0,5645	0,5267	0,4894	0,4526	0,4162	0,3801	0,3443	0,3089	0,2739	0,2393	0,2051	0,1713	0,1379	0,1049	0,0516	0,0260	0,0004	0,0000	0,0000
11	0,7883	0,7045	0,6659	0,6275	0,5895	0,5520	0,5150	0,4784	0,4422	0,4063	0,3707	0,3354	0,2999	0,2649	0,2303	0,1961	0,1623	0,1289	0,0957	0,0424	0,0168	0,0004	0,0000	0,0000
12	0,7698	0,6884	0,6511	0,6138	0,5769	0,5404	0,5043	0,4685	0,4330	0,3978	0,3629	0,3283	0,2940	0,2600	0,2263	0,1929	0,1598	0,1270	0,0944	0,0411	0,0155	0,0001	0,0000	0,0000
13	0,7514	0,6724	0,6363	0,5999	0,5639	0,5283	0,4930	0,4580	0,4232	0,3886	0,3542	0,3200	0,2860	0,2523	0,2189	0,1857	0,1527	0,1200	0,0875	0,0342	0,0086	0,0001	0,0000	0,0000
14	0,7331	0,6565	0,6216	0,5860	0,5508	0,5160	0,4815	0,4473	0,4133	0,3794	0,3457	0,3122	0,2789	0,2458	0,2129	0,1801	0,1475	0,1151	0,0827	0,0294	0,0038	0,0001	0,0000	0,0000
15	0,7149	0,6407	0,6069	0,5724	0,5382	0,5042	0,4704	0,4368	0,4034	0,3701	0,3370	0,3041	0,2713	0,2387	0,2062	0,1738	0,1415	0,1093	0,0771	0,0238	0,0001	0,0000	0,0000	0,0000
16	0,6968	0,6249	0,5923	0,5590	0,5260	0,4932	0,4605	0,4280	0,3956	0,3633	0,3311	0,2990	0,2670	0,2351	0,2033	0,1715	0,1397	0,1080	0,0762	0,0229	0,0001	0,0000	0,0000	0,0000
17	0,6788	0,6093	0,5779	0,5449	0,5122	0,4797	0,4473	0,4150	0,3828	0,3506	0,3185	0,2864	0,2544	0,2224	0,1904	0,1584	0,1264	0,0944	0,0624	0,0091	0,0001	0,0000	0,0000	0,0000
18	0,6609	0,5948	0,5647	0,5320	0,4996	0,4673	0,4351	0,4030	0,3709	0,3388	0,3067	0,2746	0,2425	0,2104	0,1783	0,1462	0,1141	0,0820	0,0500	0,0067	0,0001	0,0000	0,0000	0,0000
19	0,6431	0,5804	0,5516	0,5192	0,4870	0,4549	0,4228	0,3907	0,3586	0,3265	0,2944	0,2623	0,2302	0,1981	0,1660	0,1339	0,1018	0,0697	0,0376	0,0043	0,0001	0,0000	0,0000	0,0000
20	0,6254	0,5659	0,5383	0,5062	0,4742	0,4422	0,4101	0,3780	0,3459	0,3138	0,2817	0,2496	0,2175	0,1854	0,1533	0,1212	0,0891	0,0570	0,0249	0,0016	0,0001	0,0000	0,0000	0,0000
25	0,7798	0,6095	0,4776	0,3751	0,2953	0,2330	0,1842	0,1460	0,1160	0,0923	0,0730	0,0588	0,0479	0,0394	0,0326	0,0271	0,0226	0,0189	0,0158	0,0131	0,0106	0,0082	0,0059	0,0039
30	0,7419	0,5521	0,4120	0,3083	0,2314	0,1741	0,1314	0,0994	0,0754	0,0573	0,0434	0,0340	0,0280	0,0234	0,0196	0,0161	0,0129	0,0100	0,0074	0,0049	0,0026	0,0014	0,0008	0,0005
40	0,6717	0,4529	0,3066	0,2083	0,1420	0,0972	0,0668	0,0460	0,0318	0,0221	0,0160	0,0114	0,0081	0,0058	0,0042	0,0030	0,0021	0,0014	0,0009	0,0006	0,0004	0,0003	0,0002	0,0001
50	0,6080	0,3715	0,2281	0,1407	0,0872	0,0543	0,0339	0,0213	0,0134	0,0085	0,0053	0,0034	0,0021	0,0013	0,0008	0,0005	0,0003	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
60	0,5504	0,3048	0,1697	0,0951	0,0533	0,0303	0,0173	0,0099	0,0057	0,0033	0,0019	0,0011	0,0006	0,0004	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001

*Emuat angka dibelakang koma

LAMPIRAN 7. *Distribution Fitting* untuk Mesin Bubut

Variable: DTBUBUT.wakturusak (length = 36)

(1)	750	(19)	1050
(2)	950	(20)	1000
(3)	990	(21)	975
(4)	850	(22)	960
(5)	760	(23)	880
(6)	995	(24)	750
(7)	885	(25)	785
(8)	785	(26)	795
(9)	790	(27)	1010
(10)	775	(28)	955
(11)	985	(29)	855
(12)	995	(30)	965
(13)	785	(31)	945
(14)	750	(32)	755
(15)	810	(33)	1000
(16)	865	(34)	960
(17)	835	(35)	970
(18)	990	(36)	930

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 2

Number of trials: 1050

Event probability: 0.84881

Estimated KOLMOGOROV statistic DPLUS = 1
Estimated KOLMOGOROV statistic DMINUS = 0
Estimated overall statistic DN = 1
Approximate significance level = 0

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 3

Lower limit: 750

Upper limit: 1050

Estimated KOLMOGOROV statistic DPLUS = 0.152732
Estimated KOLMOGOROV statistic DMINUS = 0.123385
Estimated overall statistic DN = 0.152732
Approximate significance level = 0.370502

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 4

Event probability: 1.12076E-3

Estimated KOLMOGOROV statistic DPLUS = 0.307716
Estimated KOLMOGOROV statistic DMINUS = 0.569222
Estimated overall statistic DN = 0.569222
Approximate significance level = 0

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 5

Number of successes: 750

Event probability: 0.841515

Estimated KOLMOGOROV statistic DPLUS = 0
Estimated KOLMOGOROV statistic DMINUS = 1
Estimated overall statistic DN = 1
Approximate significance level = 0

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 6

Mean: 891.25

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 8

Degrees of freedom: 891.25

Estimated KOLMOGOROV statistic DPLUS = 0.308932
Estimated KOLMOGOROV statistic DMINUS = 0.36913
Estimated overall statistic DN = 0.36913
Approximate significance level = 1.09744E-4

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 9

Alpha: 85

Beta: 0.0953717

Estimated KOLMOGOROV statistic DPLUS = 0.14628
Estimated KOLMOGOROV statistic DMINUS = 0.191672
Estimated overall statistic DN = 0.191672
Approximate significance level = 0.141939

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 10

Mean: 891.25

Estimated KOLMOGOROV statistic DPLUS = 0.307857
Estimated KOLMOGOROV statistic DMINUS = 0.568943
Estimated overall statistic DN = 0.568943
Approximate significance level = 0

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 12

Shape (alpha): 85.3497

Scale (beta): 0.0957641

Estimated KOLMOGOROV statistic DPLUS = 0.146812

Estimated KOLMOGOROV statistic DMINUS = 0.192025

Estimated overall statistic DN = 0.192025

Approximate significance level = 0.140561

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 13

Mean: 891.454

Standard deviation: 98.7629

Estimated KOLMOGOROV statistic DPLUS = 0.142393
Estimated KOLMOGOROV statistic DMINUS = 0.192393
Estimated overall statistic DN = 0.192393
Approximate significance level = 0.139141

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 14

Mean: 891.25

Standard deviation: 96.949

Estimated KOLMOGOROV statistic DPLUS = 0.14515
Estimated KOLMOGOROV statistic DMINUS = 0.182576
Estimated overall statistic DN = 0.182576
Approximate significance level = 0.18129

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 15

Degrees of freedom: 2

Estimated KOLMOGOROV statistic DPLUS = 4.53514E-7
Estimated KOLMOGOROV statistic DMINUS = 0.999999
Estimated overall statistic DN = 0.999999
Approximate significance level = 0

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 16

Lower limit: 750

Central point: 873.75

Upper limit: 1050

Estimated KOLMOGOROV statistic DPLUS = 0.25101

Estimated KOLMOGOROV statistic DMINUS = 0.263712

Estimated overall statistic DN = 0.263712

Approximate significance level = 0.0133798

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 17

Lower limit: 750
Upper limit: 1050

Estimated KOLMOGOROV statistic DPLUS = 0.155556
Estimated KOLMOGOROV statistic DMINUS = 0.122222
Estimated overall statistic DN = 0.155556
Approximate significance level = 0.34838

Distribution Fitting

Data vector: DTBUBUT.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 18

Shape (alpha): 11.1597

Scale (beta): 933.924

Estimated KOLMOGOROV statistic DPLUS = 0.152818
Estimated KOLMOGOROV statistic DMINUS = 0.152601
Estimated overall statistic DN = 0.152818
Approximate significance level = 0.369817

LAMPIRAN 8. *Distribution Fitting* untuk Mesin CNC

Variable: DTCNC.wakturusak (length = 36)

(1) 1480	(19) 1490
(2) 840	(20) 990
(3) 805	(21) 905
(4) 1250	(22) 915
(5) 1640	(23) 1230
(6) 1059	(24) 1365
(7) 895	(25) 1440
(8) 1065	(26) 1755
(9) 1960	(27) 980
(10) 2105	(28) 545
(11) 1465	(29) 1140
(12) 580	(30) 1035
(13) 1865	(31) 1165
(14) 1580	(32) 995
(15) 1185	(33) 1350
(16) 2000	(34) 1590
(17) 515	(35) 925
(18) 1660	(36) 1743

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 2

Number of trials: 2105

Event probability: 0.600515

Estimated KOLMOGOROV statistic DPLUS = 1
Estimated KOLMOGOROV statistic DMINUS = 0
Estimated overall statistic DN = 1
Approximate significance level = 0

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 3

Lower limit: 515

Upper limit: 2105

Estimated KOLMOGOROV statistic DPLUS = 0.113032
Estimated KOLMOGOROV statistic DMINUS = 0.100583
Estimated overall statistic DN = 0.113032
Approximate significance level = 0.747169

- Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 4

Event probability: 7.90462E-4

Estimated KOLMOGOROV statistic DPLUS = 0.18912
Estimated KOLMOGOROV statistic DMINUS = 0.387983
Estimated overall statistic DN = 0.387983
Approximate significance level = 3.927E-5

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 5

Number of successes: 515

Event probability: 0.40741

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 6

Mean: 1264.08

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 8

Degrees of freedom: 1264.08

Estimated KOLMOGOROV statistic DPLUS = 0.450066
Estimated KOLMOGOROV statistic DMINUS = 0.398426
Estimated overall statistic DN = 0.450066
Approximate significance level = 9.27156E-7

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 9

Alpha: 9

Beta: 7.11978E-3

Estimated KOLMOGOROV statistic DPLUS = 0.0672657
Estimated KOLMOGOROV statistic DMINUS = 0.0837698
Estimated overall statistic DN = 0.0837698
Approximate significance level = 0.962246

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 10

Mean: 1264.08

Estimated KOLMOGOROV statistic DPLUS = 0.189145
Estimated KOLMOGOROV statistic DMINUS = 0.387698
Estimated overall statistic DN = 0.387698
Approximate significance level = 3.98984E-5

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 12

Shape (alpha): 8.75709

Scale (beta): 6.92762E-3

Estimated KOLMOGOROV statistic DPLUS = 0.0641681
Estimated KOLMOGOROV statistic DMINUS = 0.0824013
Estimated overall statistic DN = 0.0824013
Approximate significance level = 0.96741

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 13

Mean: 1271.42

Standard deviation: 469.715

Estimated KOLMOGOROV statistic DPLUS = 0.0614026
Estimated KOLMOGOROV statistic DMINUS = 0.0897715
Estimated overall statistic DN = 0.0897715
Approximate significance level = 0.933775

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 14

Mean: 1264.08

Standard deviation: 417.103

Estimated KOLMOGOROV statistic DPLUS = 0.100091
Estimated KOLMOGOROV statistic DMINUS = 0.0533782
Estimated overall statistic DN = 0.100091
Approximate significance level = 0.863557

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 15

Degrees of freedom: 2

Estimated KOLMOGOROV statistic DPLUS = 1.12841E-7
Estimated KOLMOGOROV statistic DMINUS = 0.999998
Estimated overall statistic DN = 0.999998
Approximate significance level = 0

. Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 16

Lower limit: 515

Central point: 1172.25

Upper limit: 2105

Estimated KOLMOGOROV statistic DPLUS = 0.127201
Estimated KOLMOGOROV statistic DMINUS = 0.0919305
Estimated overall statistic DN = 0.127201
Approximate significance level = 0.604991

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

(1) Bernoulli	(7) Beta	(13) Lognormal
(2) Binomial	(8) Chi-square	(14) Normal
(3) Discrete uniform	(9) Erlang	(15) Student's t
(4) Geometric	(10) Exponential	(16) Triangular
(5) Negative binomial	(11) F	(17) Uniform
(6) Poisson	(12) Gamma	(18) Weibull

Distribution number: 17

Lower limit: 515

Upper limit: 2105

Estimated KOLMOGOROV statistic DPLUS = 0.113208
Estimated KOLMOGOROV statistic DMINUS = 0.100105
Estimated overall statistic DN = 0.113208
Approximate significance level = 0.74545

Distribution Fitting

Data vector: DTCNC.wakturusak

Distributions available:

- | | | |
|-----------------------|------------------|------------------|
| (1) Bernoulli | (7) Beta | (13) Lognormal |
| (2) Binomial | (8) Chi-square | (14) Normal |
| (3) Discrete uniform | (9) Erlang | (15) Student's t |
| (4) Geometric | (10) Exponential | (16) Triangular |
| (5) Negative binomial | (11) F | (17) Uniform |
| (6) Poisson | (12) Gamma | (18) Weibull |

Distribution number: 18

Shape (alpha): 3.39873

Scale (beta): 1409.38

Estimated KOLMOGOROV statistic DPLUS = 0.0965216
Estimated KOLMOGOROV statistic DMINUS = 0.0551369
Estimated overall statistic DN = 0.0965216
Approximate significance level = 0.890653