

```
options ls=80 ps=200;
```

```
Data tempsurv;
```

```
    infile "chap3_ex1.txt" firstobs=2;
```

```
    input survtime status;
```

```
run;
```

```
Proc lifereg data=tempsurv;
```

```
    model survtime*status(0)= / dist=weibull;
```

```
run;
```

### The LIFEREG Procedure

Model Information	
Data Set	WORK.TEMPSURV
Dependent Variable	Log(survtime)
Censoring Variable	status
Censoring Value(s)	0
Number of Observations	20
Noncensored Values	13
Right Censored Values	7
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	2
Name of Distribution	Weibull
Log Likelihood	-16.67769141

Number of Observations Read	20
Number of Observations Used	20

Fit Statistics	
-2 Log Likelihood	33.355
AIC (smaller is better)	37.355
AICC (smaller is better)	38.061
BIC (smaller is better)	39.347

Fit Statistics (Unlogged Response)	
-2 Log Likelihood	108.224
Weibull AIC (smaller is better)	112.224
Weibull AICC (smaller is better)	112.930
Weibull BIC (smaller is better)	114.215

Algorithm converged.

Analysis of Maximum Likelihood Parameter Estimates						
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square Pr > ChiSq
Intercept	1	3.3672	0.1291	3.1141	3.6203	679.81 <.0001
Scale	1	0.4653	0.1087	0.2943	0.7355	
Weibull Scale	1	28.9964	3.7447	22.5121	37.3483	
Weibull Shape	1	2.1494	0.5023	1.3596	3.3979	