

Supplemental Notes on the intreg Command

I think the Stata documentation makes the construction of the data set much more complicated than is necessary! Two `recode` commands can get you the upper and lower bounds of the intervals. Here is a much simpler solution.

```
. webuse womenwage, clear
(Wages of women)

. recode wagecat (5=.) (10=5) (15=10) (20=15) (25=20) (30=25) (40=30) (50=40) (51=50), gen(wage1)
(488 differences between wagecat and wage1)

. recode wagecat(51=.), gen(wage2)
(6 differences between wagecat and wage2)

. sort age, stable

. list wage1 wage2 in 1/10
```

```
+-----+
| wage1  wage2 |
+-----+
1. |      .      5 |
2. |      5     10 |
3. |      5     10 |
4. |     10     15 |
5. |      .      5 |
+-----+
6. |      .      5 |
7. |      .      5 |
8. |      5     10 |
9. |      5     10 |
10. |      5     10 |
+-----+
```

```
. intreg wage1 wage2 age age2 nev_mar rural school tenure
```

Fitting constant-only model:

```
Iteration 0:  log likelihood = -967.24956
Iteration 1:  log likelihood = -967.1368
Iteration 2:  log likelihood = -967.1368
```

Fitting full model:

```
Iteration 0:  log likelihood = -856.65324
Iteration 1:  log likelihood = -856.33294
Iteration 2:  log likelihood = -856.33293
```

```
Interval regression                                Number of obs =      488
Log likelihood = -856.33293                       LR chi2(6)       =    221.61
                                                    Prob > chi2      =    0.0000
```

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.7914438	.4433604	1.79	0.074	-.0775265	1.660414
age2	-.0132624	.0073028	-1.82	0.069	-.0275757	.0010509
nev_mar	-.2075022	.8119581	-0.26	0.798	-1.798911	1.383906
rural	-3.043044	.7757324	-3.92	0.000	-4.563452	-1.522637
school	1.334721	.1357873	9.83	0.000	1.068583	1.600859
tenure	.8000664	.1045077	7.66	0.000	.5952351	1.004898
_cons	-12.70238	6.367117	-1.99	0.046	-25.1817	-.2230583
/lnsigma	1.987823	.0346543	57.36	0.000	1.919902	2.055744
sigma	7.299626	.2529634			6.82029	7.81265

```
Observation summary:      14 left-censored observations
                          0 uncensored observations
                          6 right-censored observations
                          468 interval observations
```

Also, while it doesn't make much difference, I would be inclined to treat the lower bound as 0, rather than saying it is censored. Hopefully wages can't go below 0, can they??? The first recode command would then be

```
. recode wagecat (5=0)(10=5)(15=10)(20=15)(25=20)(30=25)(40=30)(50=40)(51=50), gen(wage1)
```