

```
%  
% p=mytcdf(x,nu)  
%  
% Computes the probability that a t random variable with nu degrees of  
% freedom is less than or equal to x. The computation is done by  
% transformation to the standard normal, using a formula from Thistead,  
% Elements of Statistical Computing, p334.  
%  
function p = tcdf(x,nu)  
s=0.368*(8*nu+3)/(2*sqrt(nu^2*log(1+x^2/nu)));  
Z=(1-(2*sqrt(1-exp(-s^2)))/(8*nu+3))*sqrt(nu*log(1+x^2/nu));  
p=phi(Z);
```