# The Importance of Provisos for $\forall I$ and $\exists E$

#### 1.

#### Consider:

1. Γ	⊢ Cb	pre	mise
2. Γ, Ib	⊢ Cb		1
3. Г	$\vdash$ Ib $\supset$ Cb		. 2,⊃I
4 Г	- ∀v(īv -	(x)	3 ∀I

## Let:

Cx means x is corrupt

Ix means x is Italian American

b is a constant referring to Buddy Cianci

## 2.

## Consider:

1. Γ	$\vdash \exists x H x$ premise
2. Δ	⊢ Ctpremise
3. Ht	$\vdash Ht \qquad \dots $
4. $\Delta$ , Ht	$\vdash \ Ct \land Ht \qquad \qquad 2,3, \! \land \! I$
5. $\Delta$ , Ht	$\vdash \exists x (Cx \land Hx)$ 4, $\exists I$
6. Γ,Δ	$\vdash \exists x(Cx \land Hx)$

#### Let:

Hx means x is a herbivore

Cx means x is a carnivore

t is a constant referring to Tom