```
only_pm_one_divs_one  THM

⊢  ∀b:ℤ. b | 1 ⇒ b = ± 1
| by Assert (∀b:ℕ. b | 1 ⇒ b = 1) THEN UnivCD
|
|\
| 1. b : ℕ
| 2. b | 1
| ⊢  b = 1
| | by FwdThru Thm* ∀a:ℕ, b:ℕ⁺. a | b ⇒ a≤b    {divisors_bound} [2]
| |
| 3. b≤1
| ⊢  b = 1  by Decide (b = 0)
| |
| |\
| | 4. b = 0
| | ⊢  b = 1
| |   by (HypSubst 4 2)
| |      THEN
| |      (FwdThru Thm* ∀a:ℤ. 0 | a ⇒ a = 0    {zero_divs_only_zero}
| |       [2])
| |
| .\
| . 4. ¬b = 0
| . ⊢  b = 1  by Auto
|
.\
. 1. ∀b:ℕ. b | 1 ⇒ b = 1
. 2. b : ℤ
. 3. b | 1
. ⊢  b = ± 1  by Decide (0≤b)
. |
. |\
. | 4. 0≤b
. | ⊢  b = ± 1  by Sel 1 (Analyze 0)
. | |
. | ⊢  b = 1  by BackThru 1
. |
. .\
. . 4. ¬0≤b
. . ⊢  b = ± 1  by Sel 2 (Analyze 0) THEN InstHyp [-b] 1
. . |
. . .....antecedent .....
. . ⊢  -b | 1
. .   by BackThru Thm* ∀a,b:ℤ. a | b ⟺ -a | b    {divides_invar_1}
END
```