Memory resources

Monday, July 11, 2022

9:03 AM

Shape Analysis:

prossible shapes "that heap-allocated structure com take:

=> example:

while
$$k$$
:

 $X = cone(0, y)$

while k is:

 $y = cons(1, y)$
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$$\Rightarrow$$
 cond $(x) = k^{\frac{1}{2}}$ or $k+k^{\frac{1}{2}}$.

 \Rightarrow cond $(x) = k^{\frac{1}{2}}$.

 $\Rightarrow \text{ by reduce to single-tomet path problem:}$ $|\text{tompst weighted} \quad \times \quad -\text{tompet path is:}$ $|\text{tompst weighted} \quad \times \quad +\text{tompet path is:}$ $|\text{tompst weighted} \quad \times \quad +\text{tompst weighted:}$ $|\text{tompst weighted} \quad \times \quad +\text{tompst weighted:}$ |tompst weighted: $|\text{tompst weighte$

⇒ by langest finite walk

| langest y + target walk:
$$\omega k^2$$
,

| y k^2
| lange x - tanget walk: $y \to x$.

| ⇒ $k^2 + 1$.