;;

;; Air cargo transport problem.

;; http://www.inf.unibz.it/~tessaris/teaching/AI\_06-07/labs/2007-01-10/planning.html

;;

(define (domain air-cargo)

(:requirements :strips)

(:predicates (In ?obj ?place)

(At ?obj ?place)

(Cargo ?obj)

(Plane ?obj)

(Airport ?obj))

(:action LOAD

:parameters (?c ?p ?a)

:precondition (and (At ?c ?a) (At ?p ?a)

(Cargo ?c) (Plane ?p) (Airport ?a))

:effect (and (In ?c ?p) (not (At ?c ?a))))

(:action UNLOAD

:parameters (?c ?p ?a)

:precondition (and (In ?c ?p) (At ?p ?a)

(Cargo ?c) (Plane ?p) (Airport ?a))

:effect (and (At ?c ?a) (not (In ?c ?p))))

(:action FLY

:parameters (?p ?from ?to)

:precondition (and (At ?p ?from)

(Plane ?p) (Airport ?from) (Airport ?to))

:effect (and (At ?p ?to) (not (At ?p ?from))))

)