EXISTENCES

TANK

If	$S \leq 4$	$P(T)$	$= 1$
If	$S > 4$ }	$P(T)$	$= \frac{3}{4}$
If	$S < 25$ }	$P(T \mid m) = \frac{1}{4}$
If	$S \geq 25$	$P(T)$	$= \frac{1}{8}$

SUPER TANK.

If	$S \geq 25$	$P(ST)$	$= \frac{1}{2}$

MISSILE.

If	$S \leq 4$	$P(m)$	$= 0$
If	$S > 4$ }	$P(m)$	$= \frac{1}{4}$
If	$S < 25$ }	$P(m \mid m) = \frac{3}{4}$
If	$S \geq 25$	$P(m)$	$= \frac{3}{8}$
If	frame is > 512	$P(m)$	$= 1$

SAUCER.

$$\left. \begin{array}{l} Saucer = 0 \\ frame \geq 256 \end{array} \right\} \quad P(Saucer) = 1$$

$$Z_{TANK} < 0$$
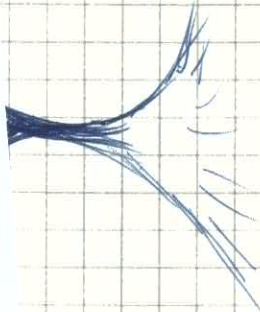
STRATEGEMS

TANK

Turn around only :
cont for 50-2|5| cycles.

$$P = 1 - \frac{F}{512}$$

256 cyc {

Turn and 'lock' :
cont till lock.

$$P = \frac{F}{512}$$

Turn and shoot :
cont till out of range ↗

$$P = 1$$
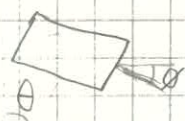
Forward + shoot :
cont till out of aim.

$$P = 1$$

Forward
50 - 2|5|

If approx $\parallel el$

$$P = 1 - \frac{F}{512}$$

SUPERTANK

As above — but limit on turning.

$$\theta + 10 < \phi < \theta + 118.$$

MISSILE

M = No. of Missiles fired so far.

One "zigzag" =

~~Angle is 45°~~

Start at (0, 2400, 25600)

Drop at rate $\begin{pmatrix} 0 \\ -160 \\ -512 \end{pmatrix}$

When Y = 0, vector is $\begin{pmatrix} 0 \\ 0 \\ -512 \end{pmatrix}$

On zigzag: X vector is ± 300 for 4 frames.

Z = M-1

But chances of a zig = $\frac{3}{4}$

If Object is ahead, ~~else's~~ Climb $\begin{pmatrix} ? \\ 512 \\ -512 \end{pmatrix}$ for 3 frames

then continue for a frame

then down $\begin{pmatrix} ? \\ -512 \\ -512 \end{pmatrix}$ for 3 frames

To detect object: if $Z_m = Z_o ± 2048$.

and

~~if~~ zig $X_m = X_o ± 512$.

~~left~~ zig $X_m = $ Then Jump.

SAUCER

$-32768 < X_s \leq 32767$

$Z_s = Z_J + 32768$

$X_s \to X_s + x_s$ $\qquad\qquad Z_s \to Z_s + z_s$

$z_s = \pm$ const. for 50 frames $\qquad \sim 128$

$x_s = \pm$ RND for 50 frames $\qquad \sim 128$

H	L	D	E	B	C	A		H'	L'	D'	E'	B'	C'	A'
48	0	50176		6	0x	0		51	0	64 z	0 zst	112	114	0
96	0	7				0 y		0 xs	0 y	0 x3t	14 zφ	56	57	1
192	0	8				0		56 z'	0x	49 z'		28	86	7664
		9				0						14	78	49
		0				64						7	39	
		1				32						131	147	
		2				96						193	201	
		D				48						224	228	
						112						112	114	
						56						112	57	
						56 z'						56	136	
						0						28	78	
						0 x						7	39	
						56						131	147	
						28						193	201	
						84						224	228	
						42						113	114	
						98								
						49								
						49								
						0								
						56								
						28								
						14								
						0								
						14								