

APPLICATION NOTE NO. 17GRAPHICS PROGRAMMING IN IS-LISP

LISP stands for LIST Processing. Originally designed for computers without sound and graphics, its prime use was text manipulation. However, IS-LISP is special. Containing over twice as many commands and functions as other versions, it fully encompasses the sound and graphics capabilities of the Enterprise. Here is a sample program which draws 'stars' on the graphics screen. (There are two 'programs' defined as CIRCLE and STAR).

```
(DEFUN CIRCLE(X) (ELLIPSE X(DIFFERENCE 260 X)))  
  
(DEFUN STAR(X Y)  
(PLOT X Y)  
(SETQ C 0)  
(SETQ A 0)  
(LOOP  
(UNTIL(EQ C 270)A)  
(CIRCLE C)  
(SETQ C(PLUS A C))  
(SETQ C(PLUS C 30))))
```

To run this program, enter graphics mode by typing:

(GRAPHICS) then type (STAR X Y) where x and y are the co-ordinates of the centre of the star.