

Case Study

London Underground

The system installed for Encore Computer is designed to control

- High legibility displays in the stations and 'next station' displays in the trains
- Public address systems which adjust their volume automatically to account for background noise
- Digitally recorded station announcements 100% coverage surveillance cameras
- Sliding glass doors on the platform which only open when the train is in the right position
- Decision support systems

An Encore Infinity Real Time high availability system, made up of 2 DEC alpha computers coupled using Encore's Reflective Memory running under Digital UNIX forms the core of the system. The interface between these computers and the various display boards etc. was supplied by Control.

This interface provides full duplex HDLC over a synchronous RS-485 interface. The link operates point to point although it is multidropped between the 2 DEC Alpha computers.

Control developed a custom board for Encore with 16 RS-485 ports, each selectable for synchronous or asynchronous mode.



Each DEC Alpha has a Gazelle Controller which communicates with the rack mounted Interface Unit via a dedicated high speed ethernet link. The various display boards connect to the Interface Unit and are then controlled by the SIMS.

Control provided board resident HDLC/asynchronous software and PC resident drivers.

To minimise the load on the central computers and maintain the high performance 'the Gazelle Controller and Interface carries out much of the communication data processing locally.

Company

Encore Computers

Application

Station Information System

Products

Hardware and Software development

'Jubilee Line Extension System with custom developed interfaces developed by Control'

This case study is an example of the work we carry out to deliver cost effective solutions to customers' problems. If you need help in this complex field, contact Control first.