



Birmingham New Street, often described as the hub of British Rail's InterCity system, lies at the intersection of six major trunk routes (see Figure 1). Add an extensive suburban network, including a dedicated cross city service, and you have a situation where rail traffic control really must be got right. Set on a Summer Saturday in the mid 1980's the simulation allows you to control traffic for a four hour shift which we think you will find challenging as you keep traffic flowing smoothly with the minimum of delay to booked timings.

The layout of New Street station and Proof House Jct. immediately to it's east, is shown in figure 2. Five main input and output routes are represented on the plan as WV, GL, AS, CV and DY (standing for Wolverhampton, Gloucester, Aston, Coventry and Derby respectively). It is these abbreviations along with the platform number codes which are used to set up movements within the simulation. Most platforms are signalled for bi-directional and multi-train working, but in order to represent the basic service patterns then operating, we have put restrictions on the use of certain platforms as detailed in Table 1 below. A list of final destination codes and originating points is given in Table 2.

TABLE 1: RESTRICTIONS TO PLATFORM USE

PLATFORMS DEDICATED TO  
TERMINATING LOCAL SERVICES

PLATFORMS DEDICATED TO  
CROSS-CITY SERVICES

<u>PLATFORM</u>	<u>TO/FROM</u>		
P1A	Walsall	P5	Eastbound
P1B	Hereford, Malvern, Worcester	(to Four Oaks, Blake St & Litchfield)	
P3A	Coventry		
P3B	Kidderminster, Stourbridge	P12	Westbound
P4A	Euston (EMUs)	(to Longbridge, Redditch & Bromsgrove)	
P4B	Wolverhampton, Stafford (+Preston EMU)		

OTHER RESTRICTIONS

P2 can only be used by trains from WV line to the CV line \*

P6 can only be used by trains from CV line to the WV line \*

\* Note that these trains may use other platforms

Terminating trains from East Anglia must use P8 ^

Terminating trains from East Mids and Lines must use P9 ^

^ Other trains may use these platforms

LOADING THE PROGRAM  
SPECTRUM

The program is loaded by typing LOAD""

GETTING STARTED

Having loaded take a note of traffic conditions and then press any key as instructed, now wait for the screen to fill with trains due to arrive and depart. Press the SPACE BAR on input prompt (after ACCEPT) the clock should read 10:00hrs. Check carefully to see if any train is due to arr. or is ready to depart. Depending on lateness any of the trains due displayed on the screen may be moved as the due at times changes to "app". When this happens type in the route input e.g. WV for the 1Y71 Liv-Pgn, press ENTER/RETURN and in answer to EXIT key in a platform code e.g. P7 then ENTER/RETURN. If nothing else can be moved let the clock tick on. At 10:02 1V68 Brm-Cdf becomes ready to depart. in answer to input (after ACCEPT) key in P9 then ENTER/RETURN, in answer to EXIT type in GL, the train will now move out. As arrivals become available, this is when the due at time changes to "app" you should be able to move 2G57 Wal-Brm from AS to P1A and the 1012 Baf-Wey (DY) to P11 and 2G45 (CV) to P3A. etc. using the methods described.

TABLE 2: ORIGINATING AND DESTINATION CODES

	<u>WV</u>		<u>CV</u>		<u>DY</u>
Abw	Aberystwyth	Bgn	Brighton	Cam	Cambridge
Blk	Blackpool	Cob	Coventry	Dby	Derby
Car	Carlisle	Eus	Euston	Lec	Leicester
Gla	Glasgow	Pad	Paddington	Lcn	Lincoln
Her	Hereford	Ple	Poole	Nor	Norwich
Hol	Holyhead	Pts	Portsmouth	Not	Nottingham
Inv	Inverness	Wey	Weymouth	Pet	Peterborough
Kid	Kidderminster			Yar	Yarmouth
Liv	Liverpool				
Lld	Llandudno		<u>AS</u>		<u>GL</u>
Mal	Malvern	BSt	Blake St	Brg	Bromsgrove
Man	Manchester	Foa	Four Oaks	Cdf	Cardiff
Prs	Preston	Lch	Litchfield	Lgb	Longbridge
Shw	Shrewsbury	Wal	Walsall	Nqy	Newquay
Stb	Stourbridge			Pgn	Paington
Stf	Stafford		<u>DY</u>	Plm	Plymouth
Wlv	Wolverhampton	Bdf	Bradford	Pnz	Penzance
Wor	Worcester	Cle	Cleethorpes	Red	Redditch
		Hul	Hull	Tby	Tenby
		Lds	Leeds	Wst	Weston-s-Mare
		New	Newcastle		
		Yrk	York		

BIRMINGHAM NEW STREET POWERBOX (c) copyright 1993 ASHLEY GREENUP  
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0AN.

Trains are referred to by their four digit reporting codes, the first digit, if a 1, denoting a main line express and if a 2, secondary stopping service. Special care has to be taken with two services from the North West which, with no locomotive change, take the DY exit and the Camp Hill line to the South West rather than the more conventional GL route. These are 1V83 and 1V87. details of motive power are given as you issue movement directives with locomotive changes and associated light engine movements occurring behind the scenes. DMUs are given TOPS style identifications in the simulation even though these were not carried by most units; an additional prefix of a plus sign denotes units coupled together.

The simulation runs from 10:00 hrs to 14:00 hrs but until you gain experience you may find this hard going so there is a special "quit" option where, after more than an hours operation, you can terminate the simulation and obtain a rating of your performance. Press and hold Q for this facility.

### TRAFFIC MOVEMENTS

For each input up to 15 minutes notification is given of the next arrival. As each working nears Birmingham N.S. you will be informed, you then have three minutes to set a route before the train is checked at the approach, there is then a further two minutes to set the route before the train is held at the approach signals, (penalties will not be incurred if checked). The procedure for setting a route is to press the SPACE BAR (after ACCEPT), and then in response to prompts enter the appropriate two or three digit code of the desired input and exit points using the ENTER/RETURN key (pressing ENTER/RETURN alone after either prompt restarts the simulation without penalty and may thus be used to give thinking time or to take a break from play). If a route is correctly set for this working and does not conflict with previously set up movements, the train will be signalled in and in due course will traverse the route.

Acceptable codes are: P1A, P1B, P2, P3A, P3B, P4A, P4B, P5, P6, P7, P8, P9, P10, P11, P12, WV, GL, AS, CV, DY.

### SPECTRUM SCREEN

The Spectrum screen shows the track and platforms. When you set a route, the track involved will turn magenta and as the screen is updated each minute the amount of track cleared by the moving train will turn back to yellow, allowing, if required, another route to be set.

#### APPROACH LINE / PLATFORM DATA

```

Approach Line / Platform
/
/ Reporting Code
/ /
AS 2G57 BRM 1003
      \      \
      \      \ Arrival/Departure Time
      \
      \ Destination
  
```

#### COMMAND LINE DATA

```

Exit? / Input?
/
/ Reporting Code
/ /
EXIT? 1S61 CDF-GLA 50034
      / / /
      / / / Origination / Traction
      /
      / Destination
  
```

**OTHER ARRIVAL CODING**

- Sig Train Signalled into Station
- Run Running into Station
- App Approaching Station Area
- Hld Held at Approach Signals
- Chk Checked on Approach

**OTHER PLATFORM CODING**

- Arr Arrived in Platform
- Dep Departing Station
- 1015 Departue Time
- Rdy Ready to Depart
- Loco Chng Changing Locomotive
- Run Round Loco Running Round

