```
Needs["CCompilerDriver`"];
bianyi:=(gzuobiao=Compile[{
{data,_Real,3},
{dim(* (L,1) *),_Integer,1},
{r(* 0.~1. *),_Real},
{mode (* 1:L 2:R 3:L&R *) ,_Integer},
{di,_Real}
},
Module [{
yyL=0.,xxR=0.,yyR=0. , xxyy=\{\{0.,0.\}\}},
L=dim[[1]];l=dim[[2]];lr=Round[r*1];
Which
(* 只提取左半图像========== *)
mode==1.
(
Do[
sumrgb=Total[data[[m,n]]];
If[sumrgb>max,max=sumrgb],
\{m,1,L\}, \{n,1,lr-1\}];
Do [
If [max-di<=Total[data[[m,n]]]<=max,</pre>
u=Append[u, \{n-1, L-m\}]],
{m,1,L}, {n,1,lr-1};
lu=Length[u]-1;
Do[sx+=u[[j,1]];sy+=u[[j,2]],{j,2,lu+1}];
xxL=N[sx/lu];yyL=N[sy/lu];
xxyy={ {xxL,yyL} }
(* 只提取右半图像========= *)
mode==2,
Do[
sumrgb=Total[data[[m,n]]];
If[sumrgb>max,max=sumrgb],
{m,1,L}, {n,lr+1,l}];
Doſ
If [max-di<=Total[data[[m,n]]]<=max,</pre>
u=Append[u, \{n-1, L-m\}]],
{m,1,L},{n,lr+1,l};
lu=Length[u]-1;
Do[sx+=u[[j,1]];sy+=u[[j,2]],{j,2,lu+1}];
xxR=N[sx/lu];yyR=N[sy/lu];
xxyy={ {xxR,yyR}}
(* 两半图像同时提取=========*)
mode==3,
(
Do[
sumrgb=Total[data[[m,n]]];
If[sumrgb>max,max=sumrgb],
\{m,1,L\},\{n,1,lr-1\}\};
```

```
Do[
If [max-di <= Total [data[[m,n]]] <= max,
u=Append[u,{n-1,L-m}]],
{m,1,L}, {n,1,lr-1}];
lu=Length[u]-1;
Do[sx+=u[[j,1]];sy+=u[[j,2]],{j,2,lu+1}];
xxL=N[sx/lu];yyL=N[sy/lu];
\max=0.;
u = \{ \{0., 0.\} \};
sx=0.; sy=0.;
sumrgb=Total[data[[m,n]]];
If[sumrgb>max,max=sumrgb],
{m,1,L}, {n,lr+1,l}];
Do[
If [max-di <= Total [data[[m,n]]] <= max,
u=Append[u, \{n-1, L-m\}]],
{m,1,L}, {n,lr+1,l}];
lu=Length[u]-1;
Do[sx+=u[[j,1]];sy+=u[[j,2]],{j,2,lu+1}];
xxR=N[sx/lu];yyR=N[sy/lu];
xxyy=\{\{xxL,yyL\},\{xxR,yyR\}\};
];
ххуу
],
CompilationTarget->"C"
];
gzuobiao::usage="gzuobiao[imagedata, {L,l}, r, mode, di]";
```