

Will go on to consideration the funds applications of computer graphic arts in ergonomical researches, to expedient in following domains:

- encoding and reflection of information;
- designing of control stands;
- testing, control, teaching of operators;
- estimation of systems.

Will bring use example over of computer graphic arts for designing of control stands.

Preliminary remarks. In algorithms of composition base lies a theory of S-space selforganization, the prognoses of which formal express as invariants of objective models 1-ro of type, S- grafs and PC- diagrams.

By packet version elaboration Aim COMP from 97 y. is demonstration of this technology so, that her may be assimilate with usual approaches to designing of yu-man-machine systems. Therefore realization of basic suggestions and algorithms, the same as and acts on each of composition stages, done as more «transparent».

Elaboration environment and necessary resources. A packet created in objectively- competent environment of rapid elaboration Delphi 3; Image Editor used in quality of graphic editor. A packet launches and functions as usual program under WASP Windows 95.

For keeping of packet modules it need 0.64 Mb memory on hard drive; for keeping of base files given still 1.3 Mb. The requirements to memory do not be critical. The Text documents present as files txt., graphic - as bmp.; with other formats a packet does not work.

Will mark:

1. The first packet module is a program Zast_C_DEM.
2. A composition sequence realizes by modules Orientation_I, Sce-na_I, Razmesche_I, Propo_I, Cveta_I, Razme_ With.
3. To number of service programs treat BD_I, P_dan_I, Sohr_I, Pech_I, DV_I, Spravka_O_C_DEM.
4. A Deskbook system contains information in relation to programs and prompting to user; text and graphic information, necessary for composition, is in data base.
5. Packet Architecture provides his openness and expansibility.

Functions of separate modules:

C_DE keeps the data of resources and packet modules ties; starts to implementation of packet programs.

Zast_C_DEM provides a selection between demonstration routines, calling on deskbook system; going out in Windows with liberation of resources.

Orientation_C offers to fix (or to set) on pannel orientation, and also to be accorded reference or to call on data base.

Scena_C brings selforganization scenario selection to effect.

Razmesche_C enables to correct a composition (determination of amount of elements and their distribution on groups) scheme in accordance with scenario. Fixed on scheme can be preserved, to assimilate with analogues from data base, to unseal. Calculates having a special purpose function, which maps deviation of scheme from

optimum for given variant. Beginning with this moment a possible countermarching and change of select decisions.

Propo_C helps to define the placing zones proportions and devices (calling on references and to data base, proportions adjustment, calculations of having a special purpose function) and does the standard keeping operations, seal, going back to any of previous stages.

Cveta_C lends a possibility to make at and to change color decision. There is a possibility to acquaint with decisions-analogues, to be accorded reference and to do the standard operations.

Razme_C completes a pannel composition, allowing to calculate the dimensions and other devices, and also management organs. Possible preservation, files seal, going back to any of previous stages.

Prod_C will organize a selector transition to one of the stages of composition.

BD_C imitates a data base interface, helps to find necessary material in definite sequence, co-ordinate with composition stage.

P_dan_C provides an immediate deal with select material, as text, so and graphic nature (loading, survey, seal).

Sohr_C over calling on standard funds Delphi will organize preservation of results.

Pech_C provides a printer selection and establishment of seal parameters.

DV_C correctly completes work in case of erroneous command.

Spravka_O_C_DEM is followed with deskbook system.

Deal with packet. In environment Windows 95 livens up soever C_DE, whereupon appears packet illumination. Necessary to do a selection of one of two demonstration routines:

- to push button «demonstration»Beginning, whereupon window, conforming to composition stages, will burst automatically out appear in necessary sequence at stated intervals. All demonstration continues about seven minutes;
- independently to go from one point across menu to other.

A packet Interface is typical for any elaboration «under Windows»; he is intuitively intelligible for each user of this efficient system. Compositions each from stages corresponds separate window, divided into three zone: basic and falling menus, functional drawing-pins and editing of pannel. Special superscriptions report about name and location to file, calculation result of having a special purpose function, and others like that. The windows dimensions change Funds are standard. The user Acts boil down to transition from one window to other and to implementation of composition operations marked in menu. A User can agree with decision been brought before him, or correct and to store him attached to help of graphic editor built-in in Delphi.